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Volume I

34

DATA REPORT FOR
STATIC PRESSURE TESTS
OF THE
APOLLO PSTL-1 MODEL IN
NAA TRISONIC WIND TUNNEL (TWT 77)
NAS 9-150



(U)

30 August 1962

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Flight Technology

AVAILABLE TO NASA WIND TUNNELS ONLY

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NORTH AMERICAN AVIATION, INC.
SPACE and INFORMATION SYSTEMS DIVISION



FOREWORD

The tests described herein were conducted under NASA Apollo Contract NAS 9-150, during the period from 18 June 1962 to 9 July 1962.

Because of the large volume of data, this report is presented in two volumes. Volume I contains the tabulated pressure coefficients and Volume II contains the plotted pressure distributions.

This report was prepared by D. N. Hunt and R. R. Beeman of the Wind Tunnel Projects Group, Los Angeles Division.

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ABSTRACT

This report contains results of pressure tests of the 0.055 scale Apollo model PSTL-1 in the NAA Trisonic Wind Tunnel (Test TWT 77). Tests were conducted in the Mach number range .7 to 3.5.

Both steady state and transient pressure data were recorded. Only steady state pressure data are included herein, transient pressure data will be presented in a separate report.

Pressure coefficient data versus full scale station at various angles of attack are presented in both tabular and plotted form.

This report presents basic wind tunnel test data only, in order to make the test results available at the earliest possible date. Analyses and summary of results will be reported later under separate cover.



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I. INTRODUCTION

Wind tunnel tests of the .055 scale Apollo pressure model PSTL-1 were conducted in the Mach number range .7 to 3.5 to investigate dynamic and steady state pressure loads on the command module, service module, and adapter as effected by the launch vehicle.

Tests were conducted both with and without the escape rocket flow separator disc and some tests were made with the escape tower off. Dynamic data were recorded through the angle of attack range 0° to 6° , steady state data were recorded from -4° to $+15^\circ$.

Only the steady state pressure measurements are presented in this report. Transient pressure measurements and analysis will be presented in a separate report.

Pretest information for these tests is presented in Reference (a).

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II. REMARKS

The model was loaded prior to the test to determine its deflection under load. This loading demonstrated that the deflections are small and can be neglected.

During the low Mach number testing there were a few pressures which went off scale on the data system (in most cases negatively). These pressures have been marked out in the tabulated data.

The longitudinal station of the pressure tap on the nose of the command module appears incorrectly as 371.46 in both tabulated and plotted data. The station of this tap is the station of the command module nose, 366.38.

At each test condition where transient pressures were being recorded there were two steady state points taken at each angle of attack in order to get tunnel conditions at two points in time. Normally two angles of attack were tested on each blow. There are, therefore, four data points per blow, two at one angle and two at a second angle. In many cases the first of these four points was taken at a time when the R2 reference pressure was not yet stabilized. The result is that on the first point of a blow the pressures referenced to R2 may not have reached a stabilized value. The second point, which was at the same angle of attack, must be taken as the valid data and in all cases this is the point presented in the plotted data. At the second angle of attack on a blow both data points are valid for all pressures.

The pressures referenced to R2 were as follows:

P71, P72, P73, P74, P75, P76 on blows 2-118
P81, P82, P83, P84, P85, P88, P197 on blows 12-118
P186, P187, P188, P189 on blows 34-118

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III. MODEL DESCRIPTION

A. General

The model consists of a .055 scale replica of the Saturn C-1 booster with the Apollo payload. The finned aft section of the S-I stage is not simulated. Launch escape system components are interchangeable and data were taken with the escape tower off and with two different escape motor configurations. The model is sting mounted and has pressure orifices and flush mounted transducers distributed over the surface of the command module, the service module, the adapter, the instrument package, the S-IV stage and the S-I stage.



III. MODEL DESCRIPTION - continued

B. Instrumentation

There were 89 static pressure taps distributed over the model as shown on Dwg. No. 7121-01171, page 9. The tap locations are tabulated on pages 5, 6 and 7.

There were 19 Photocon Model 524 transducers and one Kistler transducer flush mounted on the model at the locations shown on Dwg. No. 7121-01173, page 10, and tabulated on page 8. There were two additional Photocon Model 524 transducers used, one flush mounted on the tunnel wall and another mounted inside the model to determine the effect of mechanical vibration on the transducer output. One Photocon Model 374 microphone was mounted in a special noise probe ahead of the model to determine the tunnel noise level.

There were two strain gages on the sting to measure normal force as a rough indication of model deflection.

Pressure orifice and transducer locations are designated longitudinally by model station and radially by the angle θ between the vertical plane of symmetry and the plane of symmetry through the orifice, measured from top of model clockwise looking upstream.



III. MODEL DESCRIPTION - continued

B. Instrumentation

<u>Orifice Number</u>	<u>Model Station</u>	<u>Full Scale Station</u>	<u>θ</u>	<u>Transducer Range - psid'</u>
1	20.15	366.38	0°	±25
11	20.82	378.55	0°	±15
13			90°	
15			180°	
22	21.89	398.00	45°	
23			90°	
24			135°	
25			180°	
31	23.38	425.10	0°	
33			90°	
35			180°	
41	24.41	443.82	0°	
42			45°	
43			90°	
44			135°	
45			180°	
48			315°	
52	25.25	459.10	45°	
53			90°	
54			135°	
55			180°	
61	25.98	472.37	0°	
62			45°	
63			90°	
64			135°	
65			180°	
71	26.36	479.28	0°	± 5
72			45°	
73			90°	
74			135°	
75			180°	
76			225°	
81	27.50	500.00	0°	
82			45°	
83			90°	



III. MODEL DESCRIPTION - continued

B. Instrumentation

<u>Orifice Number</u>	<u>Model Station</u>	<u>Full Scale Station</u>	<u>Ø</u>	<u>Transducer Range - psid</u>
84	27.50	500.00	135°	± 5
85			180°	
88			280°	
197	28.40	516.37	270°	
91	31.46	572.00	0°	
92			45°	
93			90°	
94			135°	
95			180°	
97			270°	
99			290°	
101	41.62	756.73	0°	
102			45°	
103			90°	
104			135°	
105			180°	
111	42.62	774.92	0°	
112			45°	
113			90°	
114			135°	
115			180°	✓
122	43.63	793.10	45°	±15
123			90°	
124			135°	
125			180°	
132	44.62	811.28	45°	
133			90°	
134			135°	
135			180°	
141	45.62	829.46	0°	
142			45°	
143			90°	
144			135°	
145			180°	✓



III. MODEL DESCRIPTION - continued

B. Instrumentation

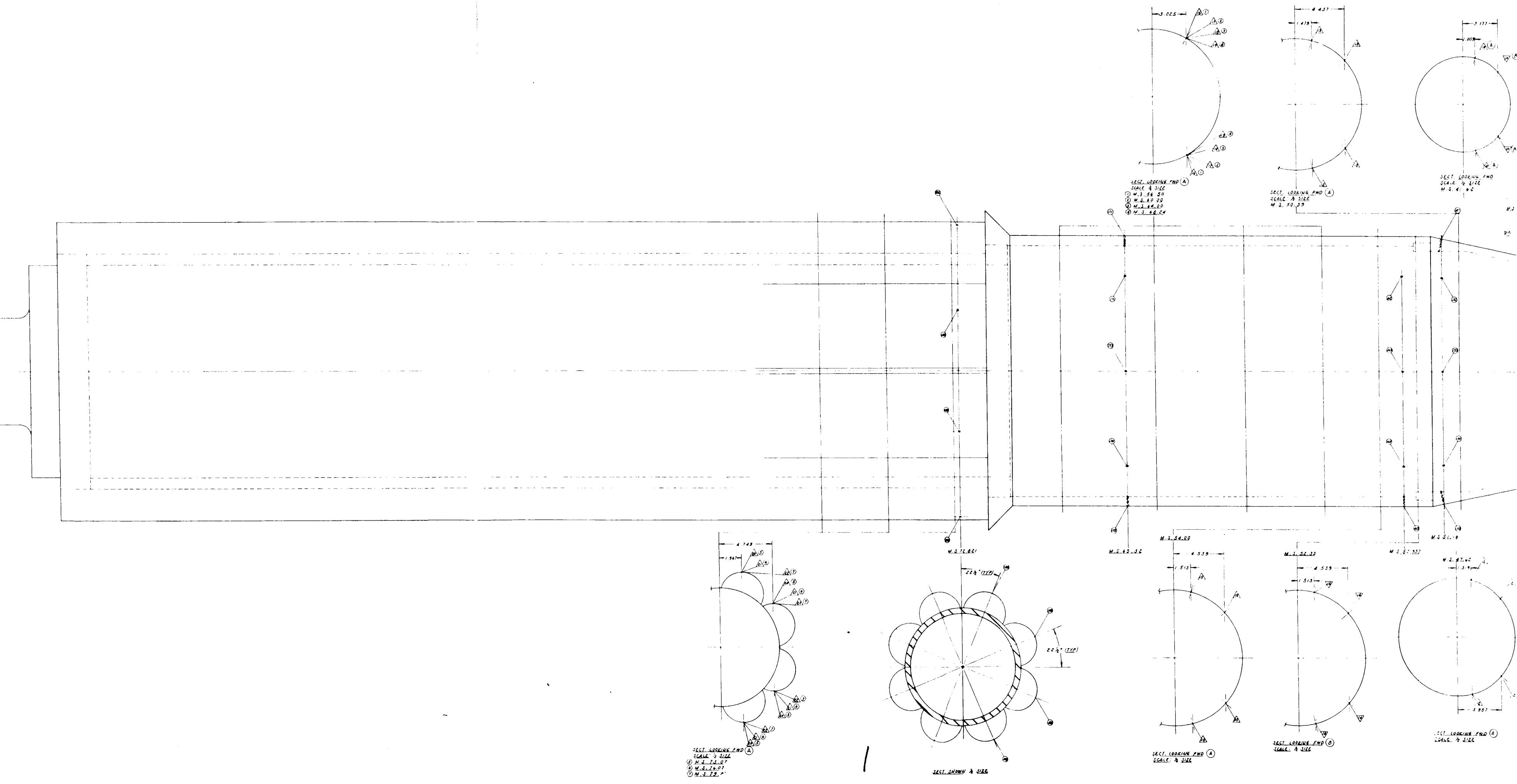
<u>Orifice Number</u>	<u>Model Station</u>	<u>Full Scale Station</u>	<u>ϕ</u>	<u>Transducer Range - psid</u>
201	46.62	847.64	0°	±15
211	47.62	865.83	0°	
151	51.16	930.19	0°	
152			45°	
153			90°	
154			135°	
155			180°	Y
162	52.957	962.86	45°	± 5
163			90°	
164			135°	
165			180°	
171	65.32	1187.65	0°	
172			45°	
173			90°	
174			135°	
175			180°	
186	72.821	1323.83	22 $\frac{1}{4}$ °	
187			67 $\frac{1}{2}$ °	
188			112 $\frac{1}{4}$ °	
189			157 $\frac{1}{2}$ °	Y

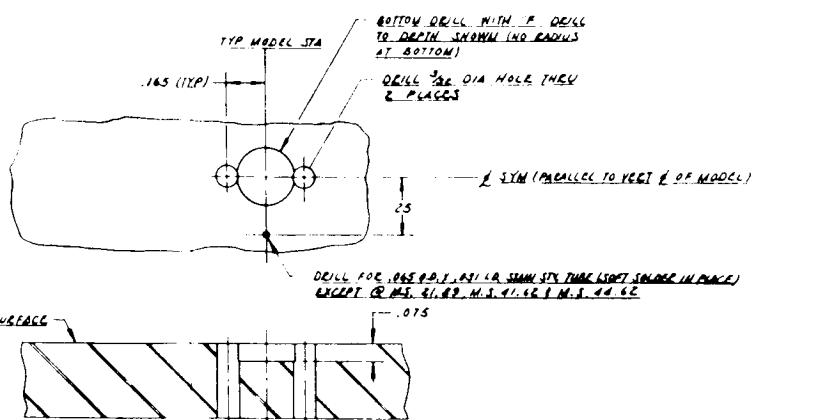
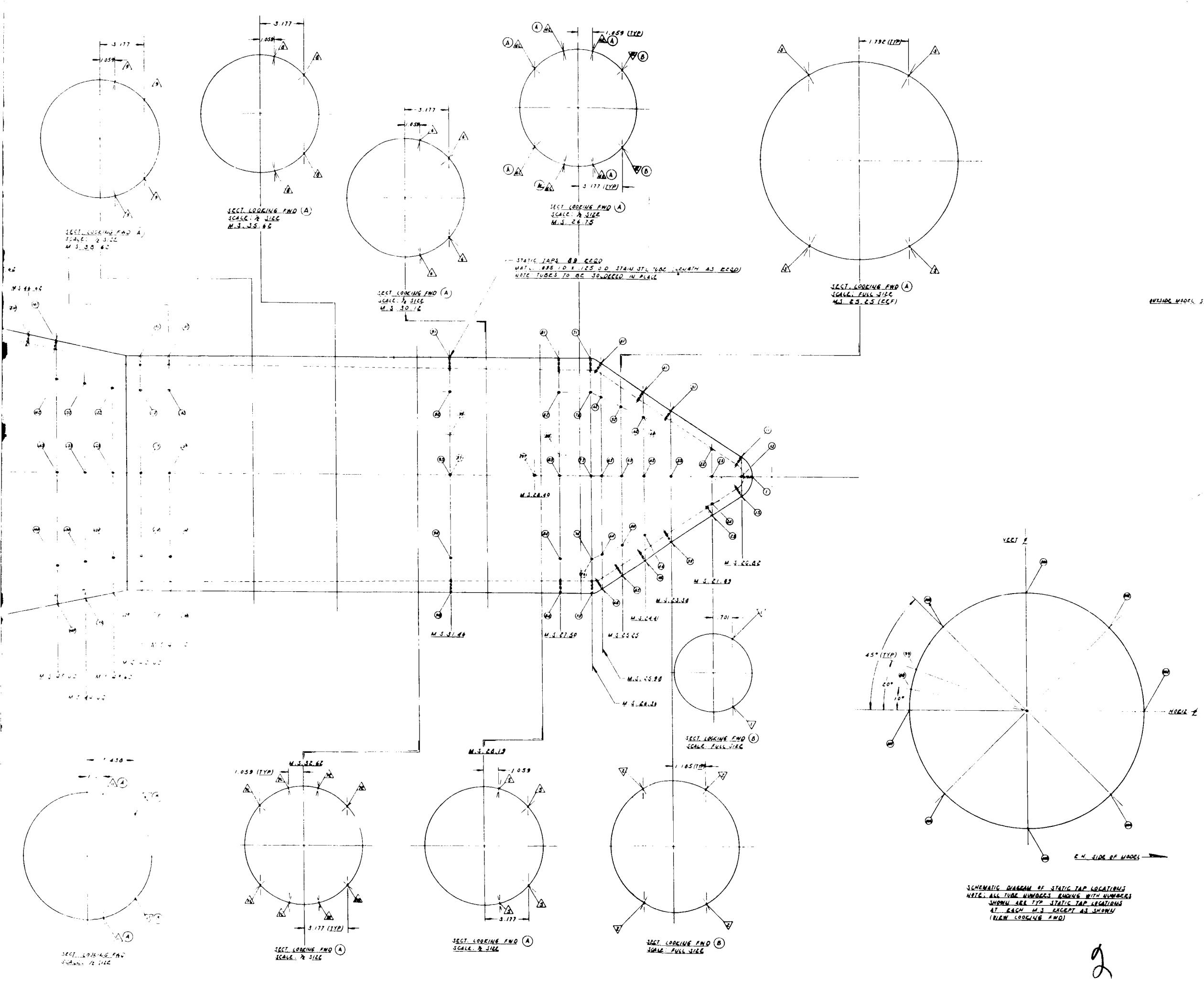
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III. MODEL DESCRIPTION - continued

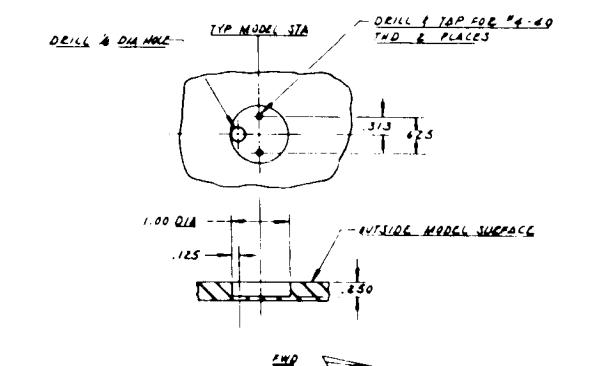
B. InstrumentationFlush Mounted Transducer Locations

System Number	Model Station	Full Scale Station	\emptyset	Transducer
1	22.00	400.00	0°	Photocon 524, ±15 psig
2	25.30	460.00	0°	
3	26.84	488.00	0°	
4	28.16	512.00	0°	
5	29.48	536.00	0°	
6	30.80	560.00	0°	
7	32.12	584.00	0°	
8	33.44	608.00	0°	
9	26.84	488.00	180°	
10	28.16	512.00	180°	
11	29.48	536.00	270°	
12	52.957	962.85	0°	
13	72.121	1311.29	22½°	
14	61.999	1127.25	0°	
15	67.647	1229.94	0°	
16	69.765	1268.45	0°	
17	69.765	1268.45	180°	
18	59.175	1075.91	22½°	
19	67.647	1229.94	22½°	Ranges Used
20	Noise probe			Photocon 374 { 182db. at $M < 1.5$ 192db. at $M \geq 1.5$
21	67.647	1229.94	180°	Kistler
22	Vibration effect only - not exposed to pres- sure			Photocon 524 ±15 psig
23	Flush mounted on tunnel wall at Tunnel Station 3524.5 (51 inches above the floor)			

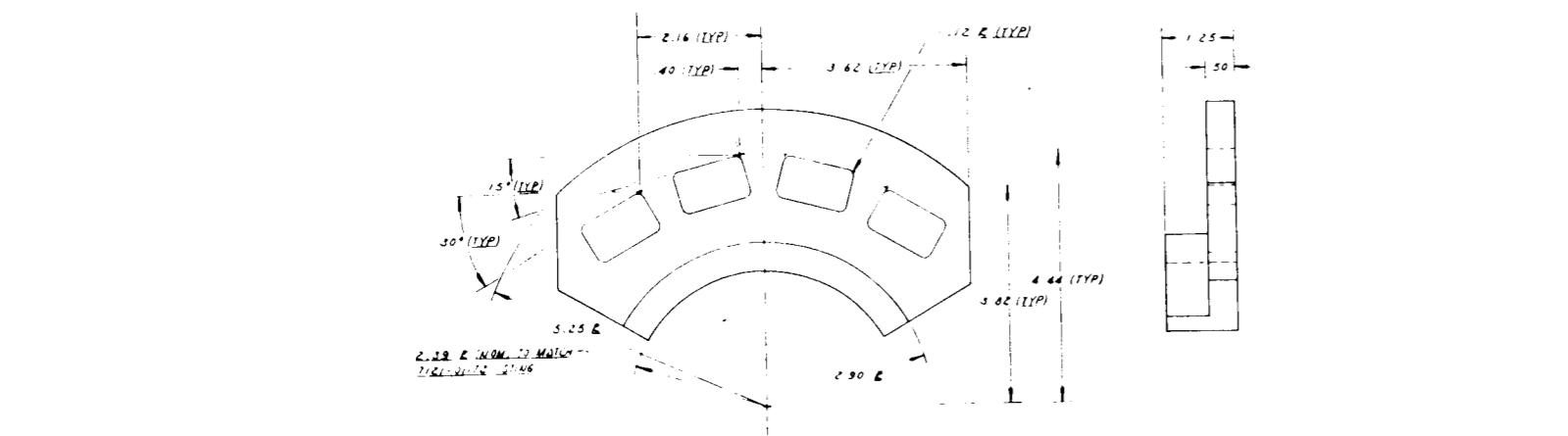




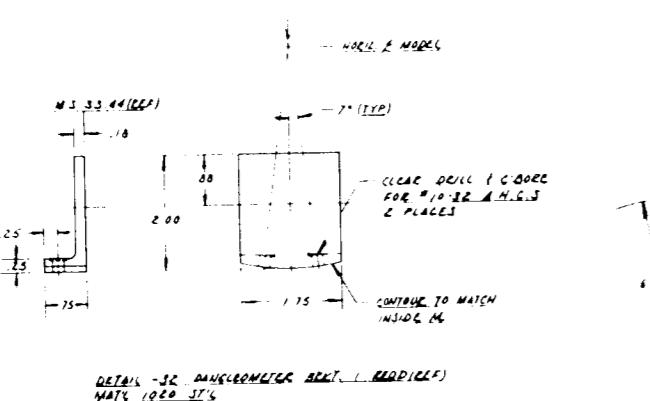
**⑧ TYPICAL MACHINING OPERATION TO BE APPLIED TO SURFACE S
PERFORMED AT ALL LOCATIONS NOTED
WITH SYMBOL △ IN 16 PLACES**



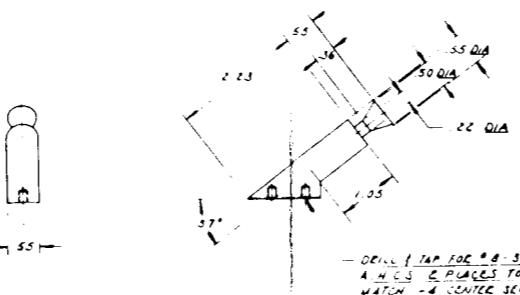
(A) TYPICAL MACHINING OPERATION TO BE + TO SURFACE & PERFORMED AT ALL LOCATIONS NOTED WITH SYMBOLS △ TO PLACES SCALE: FULL SIZE



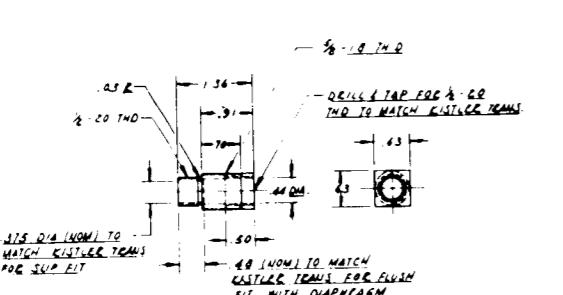
STAN - 31 INVESTIGATION OCT. 6 1920 (LLE)
ATC 1020 STC OR EQUIV -



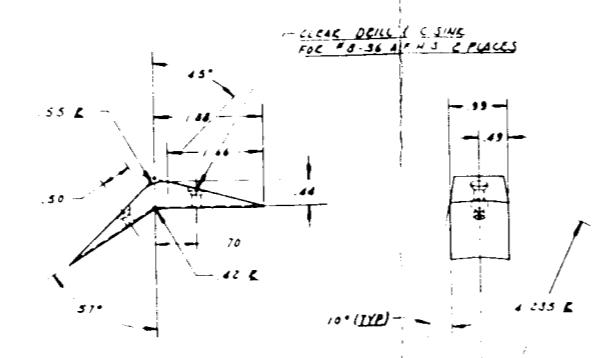
DETAIL - 32 DANGEROUS AREA (REDUCE)
MAY 1920 ST'S



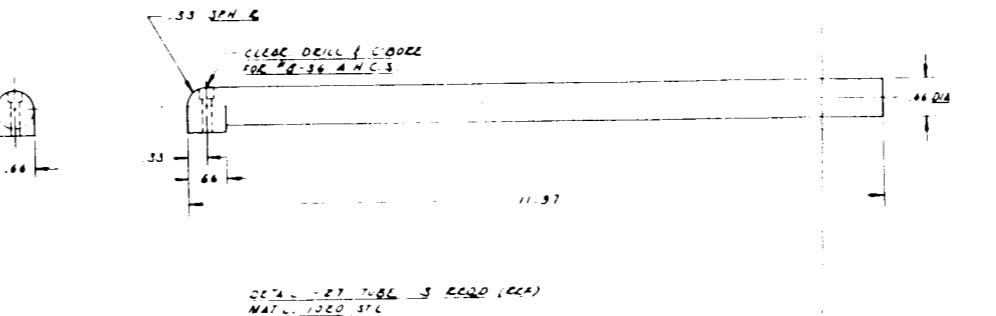
DETAIL - 69 VILLAGE HOCKEY & LEAD (CCT)



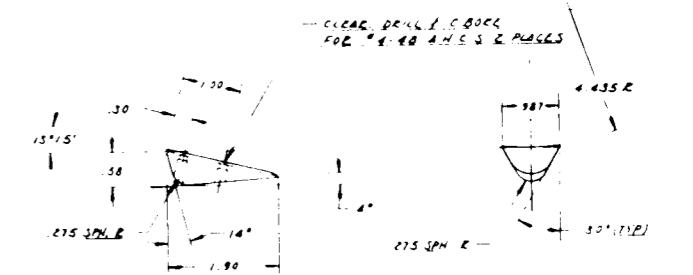
DETAIL - 30 KISTER TEAMS, ADAPTER 1 EOOD (REF)
MATCH ARMOG OR EQUIV.



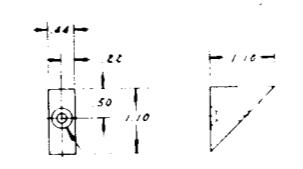
DETAIL - 28 FAIRING 1 READ (REF)
MATCH ACROSS



~~274 - 27 TUBE 3 RECD (CCS)~~
~~274 - 1020 STC~~



DETAIL - 21 FWD CETEO ROCKET / RECO (REF)
MATCH BEADS



~~CLEAR SCREEN & C CURS
FOR "0-56 AFN"~~



DEBIL - S.S. BEAM 7 CLOUDS

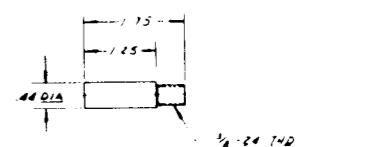
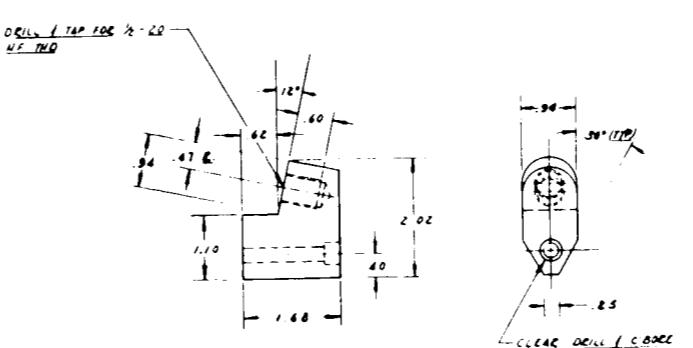
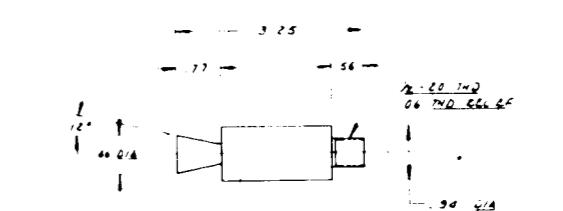


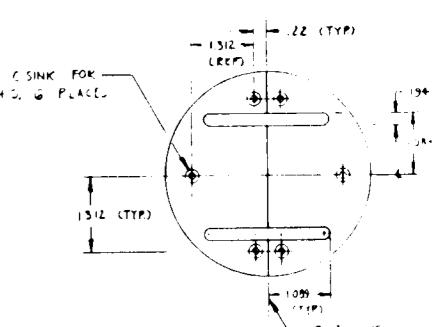
TABLE 22. CANCER & LEAD (CONT'D)
116 AMEMB



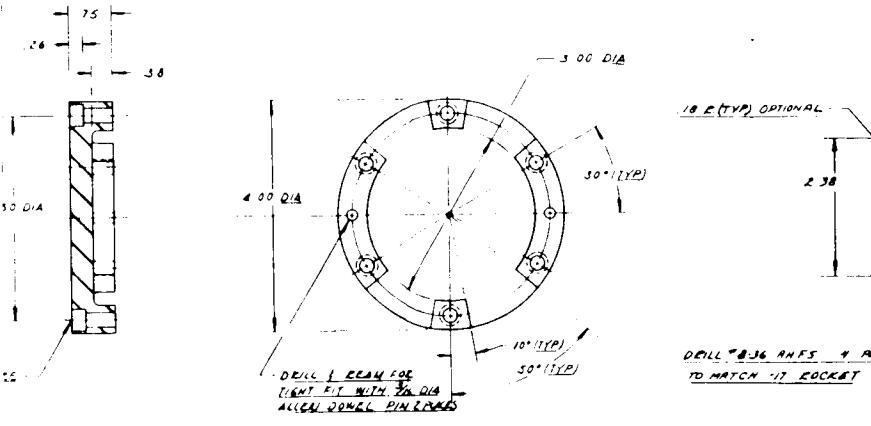
DETAIL - 84 SET CLICO BACK & PLATE (PER)
MATERIAL 7075 T6 AL ALLOY



DETAIL - CS SET ELECO BURG & PEGD 845
MAY 2015 T-6 IN BULLY

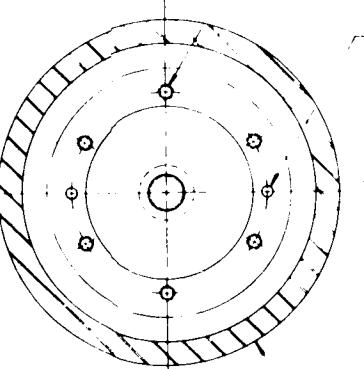


ATL -20 C SC 1 KQ2
ATL-AEMI 1 7 4 TH 1

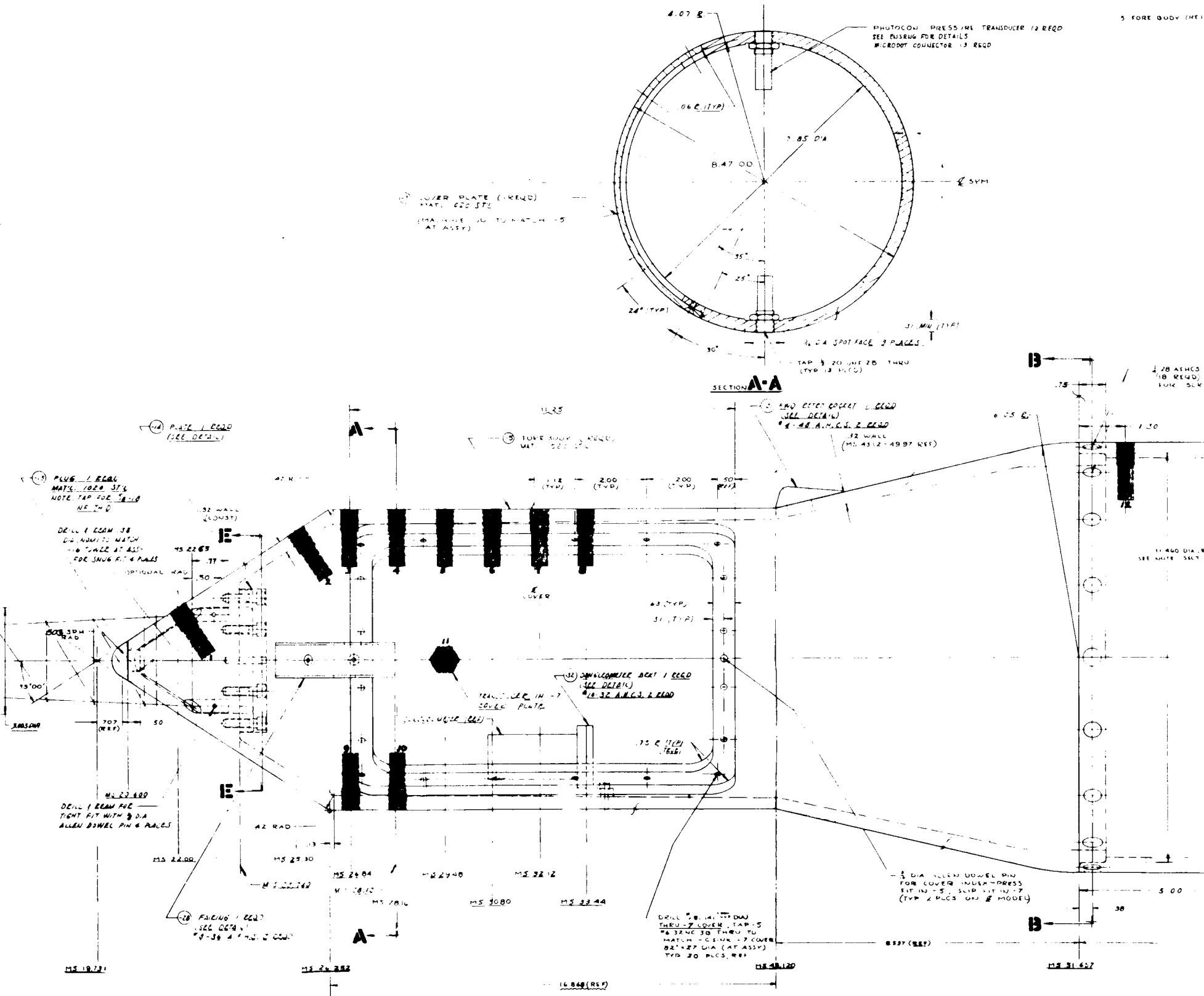
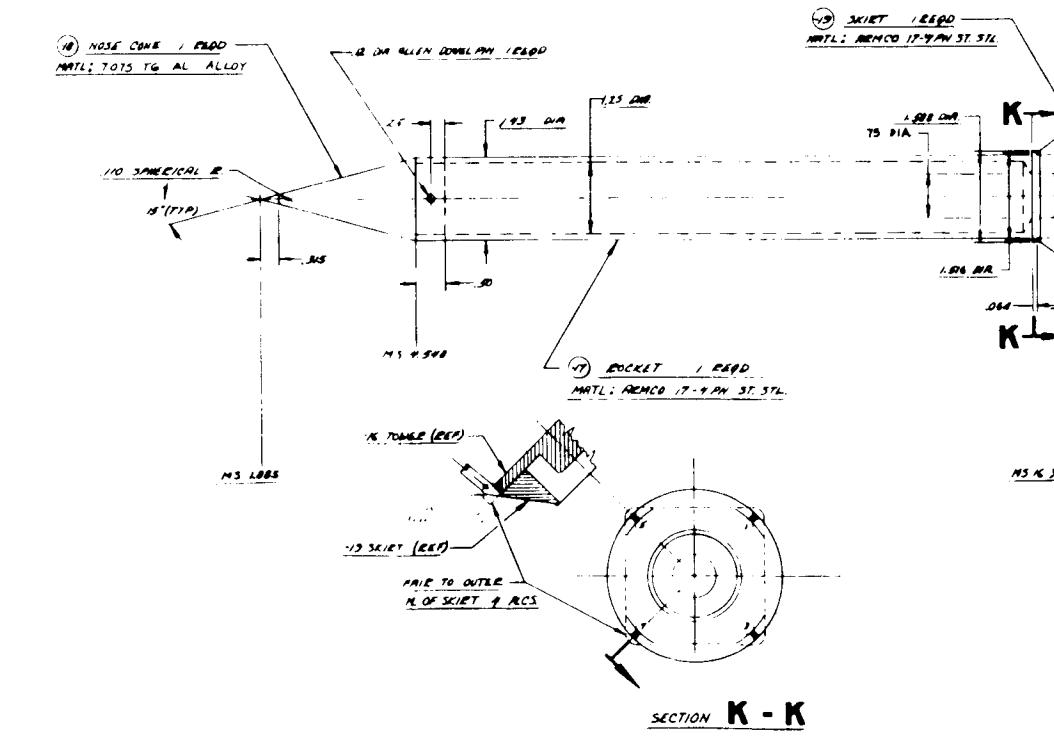
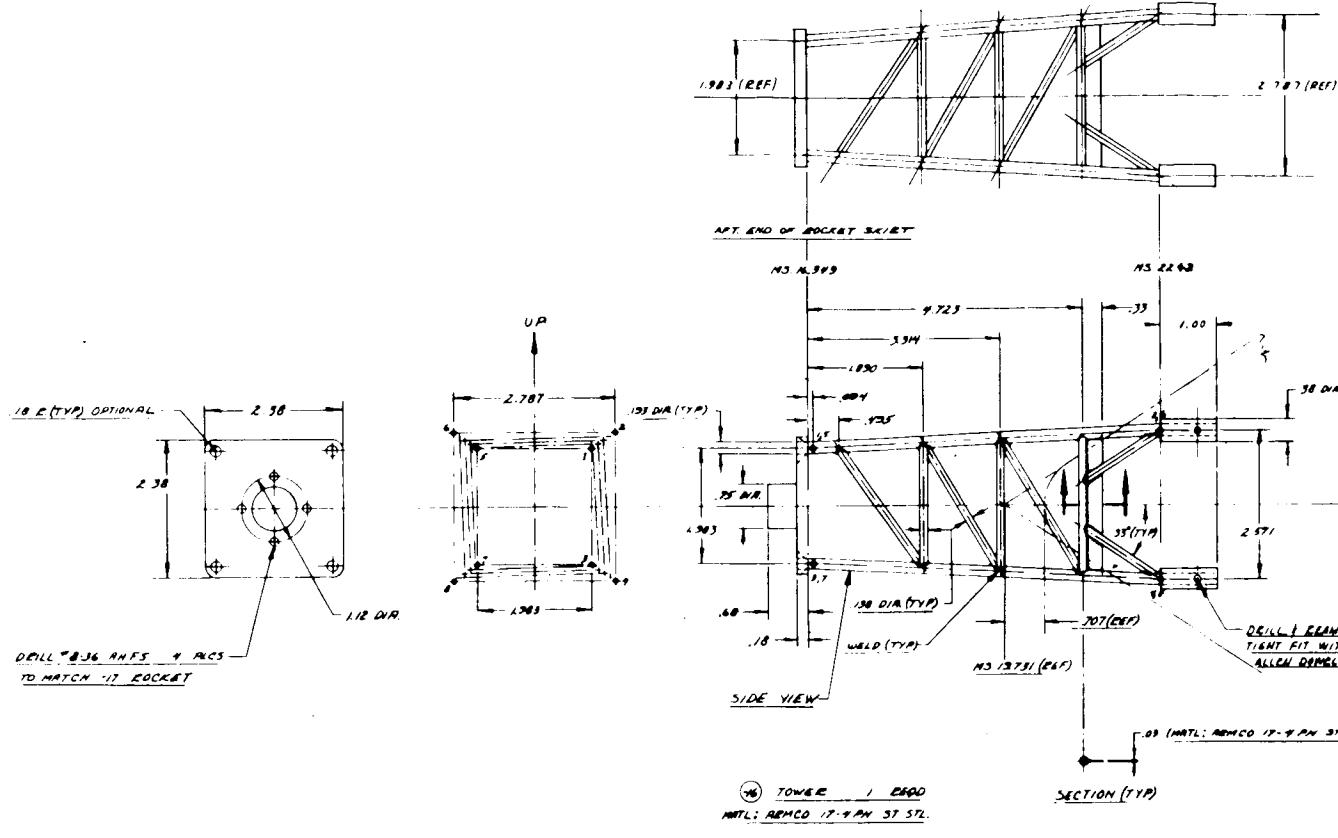


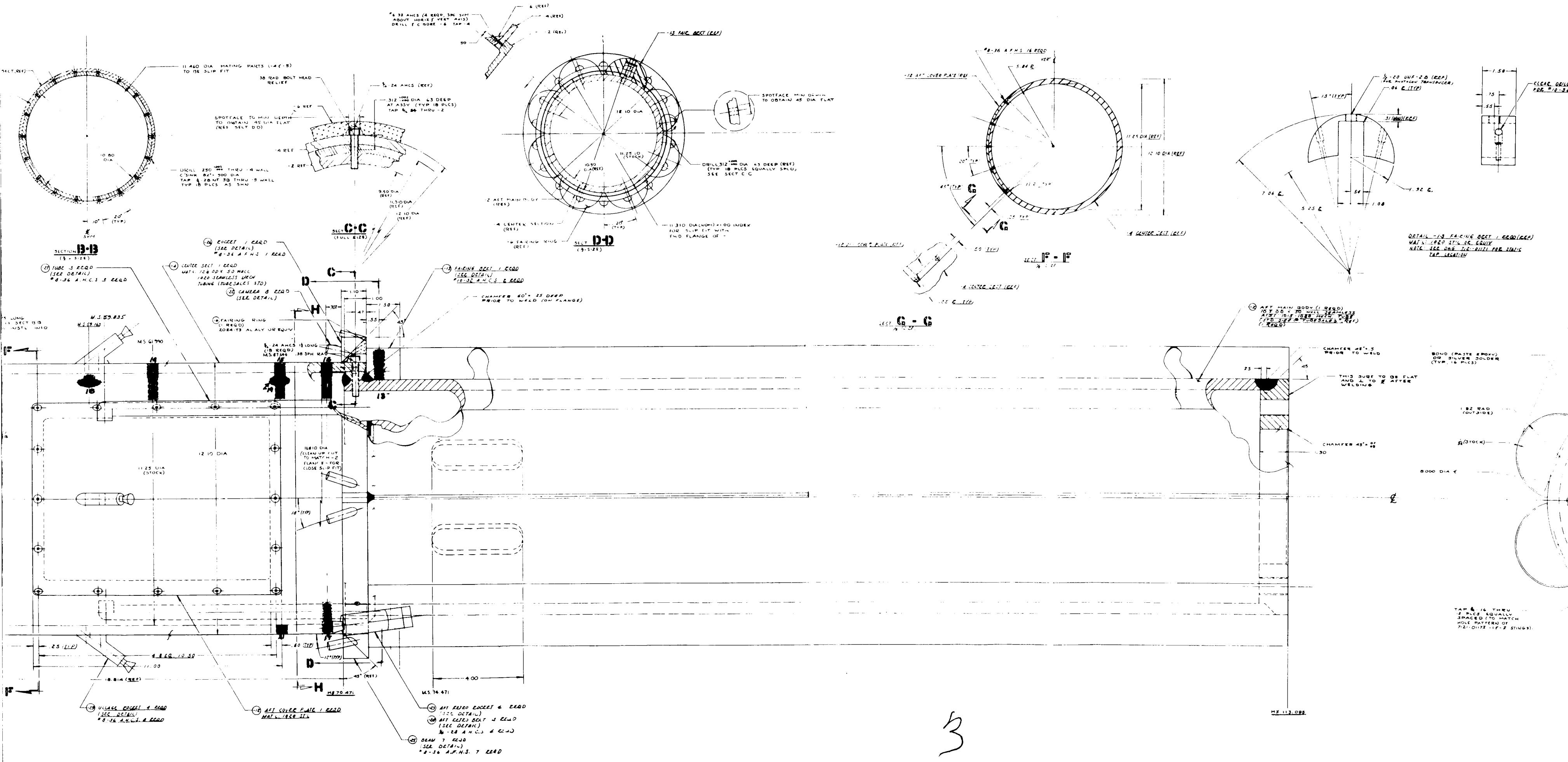
DECAL - 14 PLATE 1 5500
MAY 1980 NOT COLLECTED

- DC-L 170P FOR M-20 AND S.
- PLATES 39 DSC 10 MTCY
- 16 PLATE SET ASSY

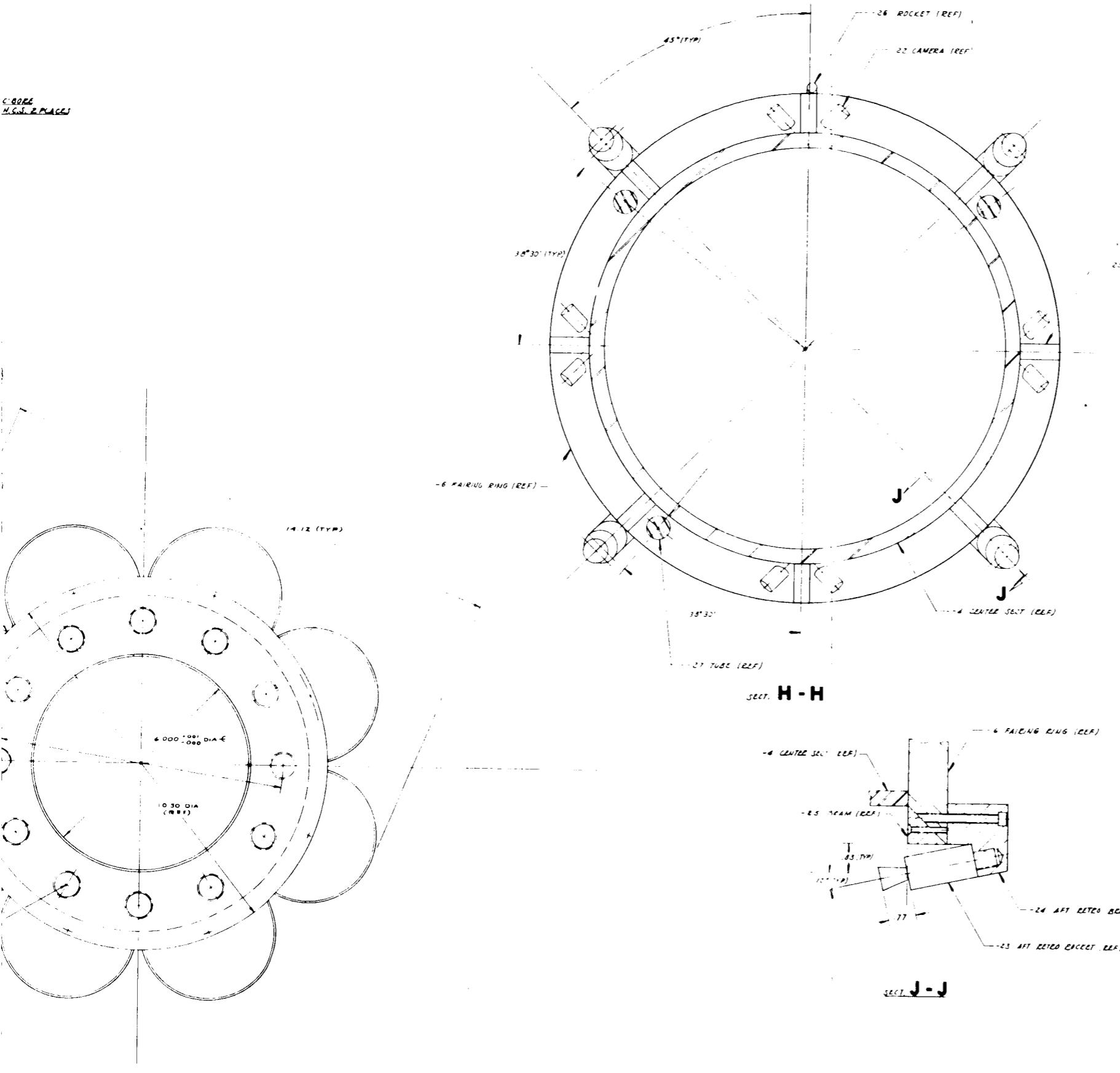


NOTE. - 1A PLATE NOT SHOWN FOR SCARFY'





CROSS
HORN PLACED





III. MODEL DESCRIPTION - continued

C. Model Nomenclature and Full Scale DimensionsModel Nomenclature Table

<u>Symbol</u>	<u>Description</u>	<u>Part Number</u>	<u>Sketch</u>
E35	Escape Motor, without Flow Separator Disc	7121-01173 -17,-18,-19	Page 10, 15
E40	Escape Motor, with Flow Separator Disc Dia. Disc/Dia. Motor = 2.5		Page 15
T16	Tower Structure	7121-01173 -16	Page 10, 15
C2	Command Module	7121-01173 -15	Page 10, 15
S3	Service Module (including Adapter)	7121-01173 -5	Page 10, 15
K	Clamp Fairing	7121-01173 -28	Page 10, 15
I	Instrumentation Unit	7121-01173	Page 15
B	Booster (including a portion of the S-I stage, S-IV stage, retro- rocket fairings, ullage rockets, cameras, retro- rockets, and ullage cooling ducts).	7121-01173 -2,-4,-12,-13 -21,-29,-22,-23 -24,-25,-27	Page 10, 15

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III. MODEL DESCRIPTION - continued

C. Model Nomenclature and Full Scale Dimensions

Model Factor 0.055

Escape Motor, E35 (Dwg. No. 7121-01173)

Total length, in.	257.28
Diameter of escape rocket, in.	26.0
Diameter of escape rocket base, in.	54.6
Skirt flare angle, deg.	36°55'
Nose radius, in.	2.0
Nose included angle, deg.	30°
Diameter of ring fw'd of flared skirt, in.	28.87

Escape Motor, E40 (Dwg. No. 7121-01173)

Total length, in.	257.28
Diameter of escape rocket, in.	26.0
Diameter of escape rocket base, in.	54.6
Skirt flare angle, deg.	36°55'
Nose radius, in.	2.0
Nose included angle deg.	30°
Diameter of disc attached just ahead of skirt, in.	65.0
Thickness of disc, in.	2.27

Tower Structure, T16 (Dwg. No. 7121-01173)

Total length, in.	114.62
Number of longitudinal members	4
Diameter of longitudinal member, in.	3.5
Diameter of cross braces, in.	2.5
Distance between attach points at command module, in. side view	46.84
plan view	50.66
Distance between attach points at rocket base, in.	36.06

Command Module, C2 (Dwg. No. 7121-01173)

Maximum diameter, in.	154.0
Corner radius, in.	7.7
Afterbody semi-angle, deg.	33.0°
Afterbody vertex radius, in.	9.15
Radius of spherical blunt end, in.	184.8

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III. MODEL DESCRIPTION - continued

C. Model Nomenclature and Full Scale DimensionsService Module, S3 (Dwg. No. 7121-01173)
(Including adapter)

Length, in. (measured from tan. pt. of module)	246.327
Diameter, in.	154.0
Adapter length, in.	92.0

Clamp Fairing, K (Dwg. No. 7121-01173)

Length of aft fairing on service module, in.	30.0
Height above service module, in.	8.0
Width at base, in.	18.0
Width at top, in.	16.589

Instrumentation Unit, I (Dwg. No. 7121-01173)

Length, in.	58.0
Diameter, in.	154.0

Booster, B (Dwg. No. 7121-01173)
(Including S-IV Stage and S-I Stage
to station 2056.27)S-IV Booster Stage

The S-IV stage is simulated by a 154 in. diameter cylinder at station 784.0 which increases to a 220 in. diameter cylinder at station 939.2 and extends to station 1281.0.

Ullage Ducts

Three ullage ducts are located between station 1087.91 and station 1281.0 at meridian angles $\theta = 51.5^\circ, 141.5^\circ$ and 308.5° .

Ullage Rockets

Four ullage rockets are located nominally at station 1087.91 at meridian angles $\theta = 0^\circ, 90^\circ, 180^\circ$ and 270° . The rockets are axially aligned out 37.0° .

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III. MODEL DESCRIPTION - continued

S-IV Retro-Rocket

One retro-rocket is simulated at station 784.0 at meridian angle $\theta = 0^\circ$.

S-I Booster Stage

The Saturn booster stage is simulated by a 256.73 in. diameter cylinder with eight engine bulges symmetrically located about the periphery of the cylinder. The Saturn stage terminates at Full Scale Station 2056.27.

S-I Retro Rockets

Four located nominally at station 1281.0 at meridian angles $\theta = 45^\circ$, 135° , 225° and 315° . The nozzle is aligned at 12° . The rocket chamber is cylindrical.

Cameras

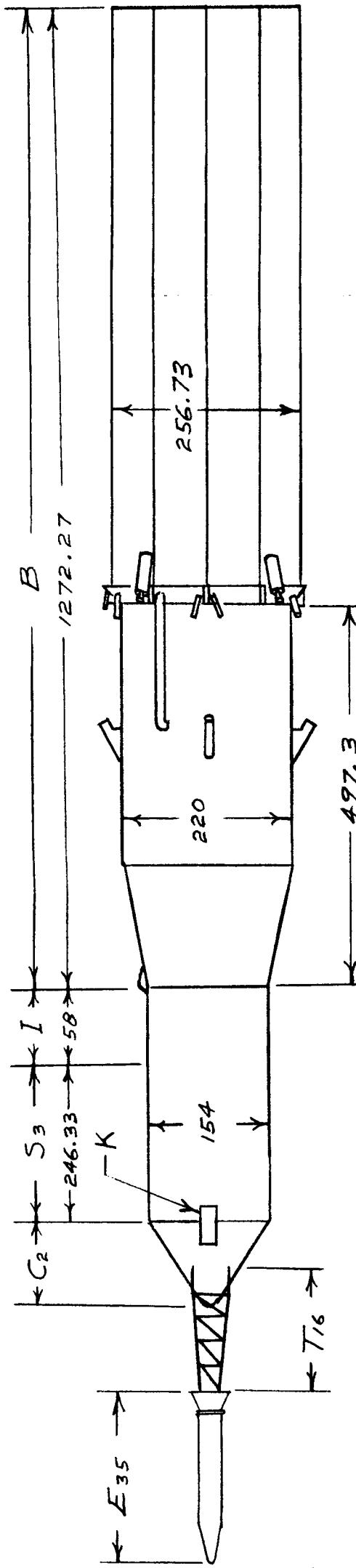
Eight cylindrical cameras nominally looking forward from station 1281.0.

I-Beam Webs

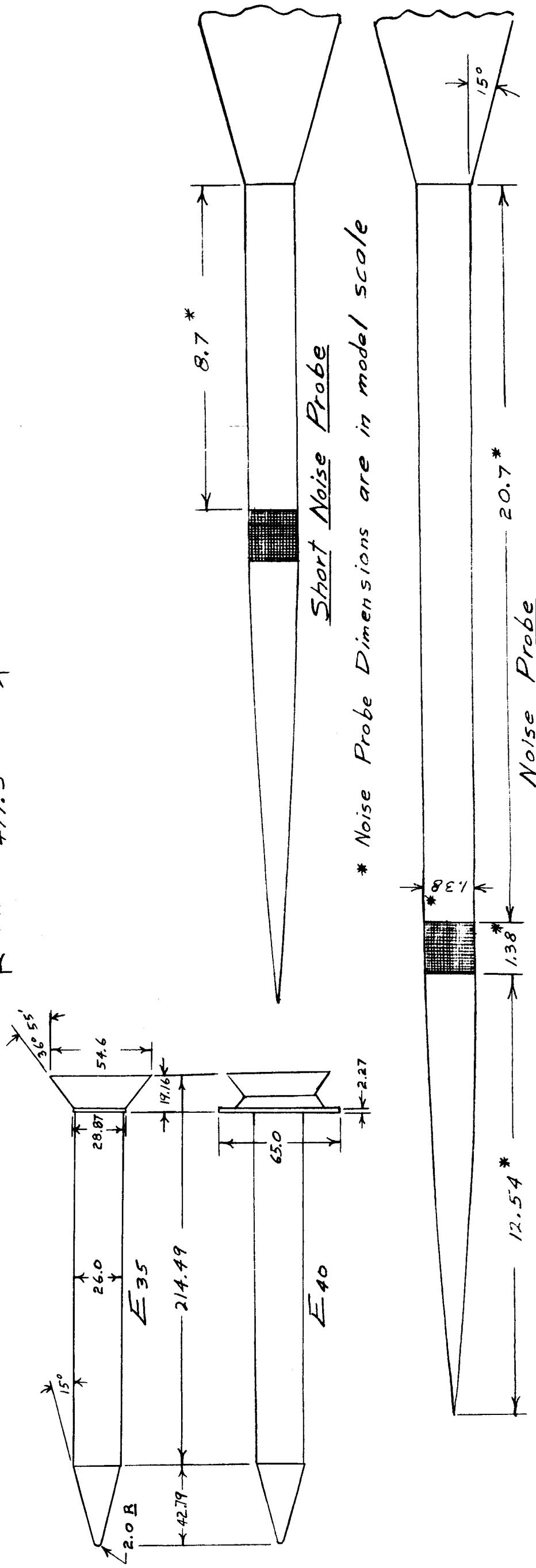
Eight simulated on the model with rectangular blocks, located 45° apart at station 1281.0.

III. Model Description
D. Configuration Sketch

Tower 77
PSTL-1



Tower : T16 = 114.64



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IV. TEST PROCEDURE

A. Test Nomenclature

$$C_p = \text{Pressure coefficient} = \frac{\Delta P}{Q} = \frac{P_x - P_0}{Q}$$

P_x = Local orifice pressure, PSF

P_0 = Free stream static pressure, PSF

Q = Free stream dynamic pressure = $1/2 \rho v^2$, PSF

v = Free stream velocity, feet per sec.

ρ = Free stream density, slugs per ft³

H_0 = Free stream total pressure, PSF

M = Mach number

TTO = Free stream total temperature, °R

RN = Reynolds number per ft. $\times 10^{-6}$

α = Model angle of attack

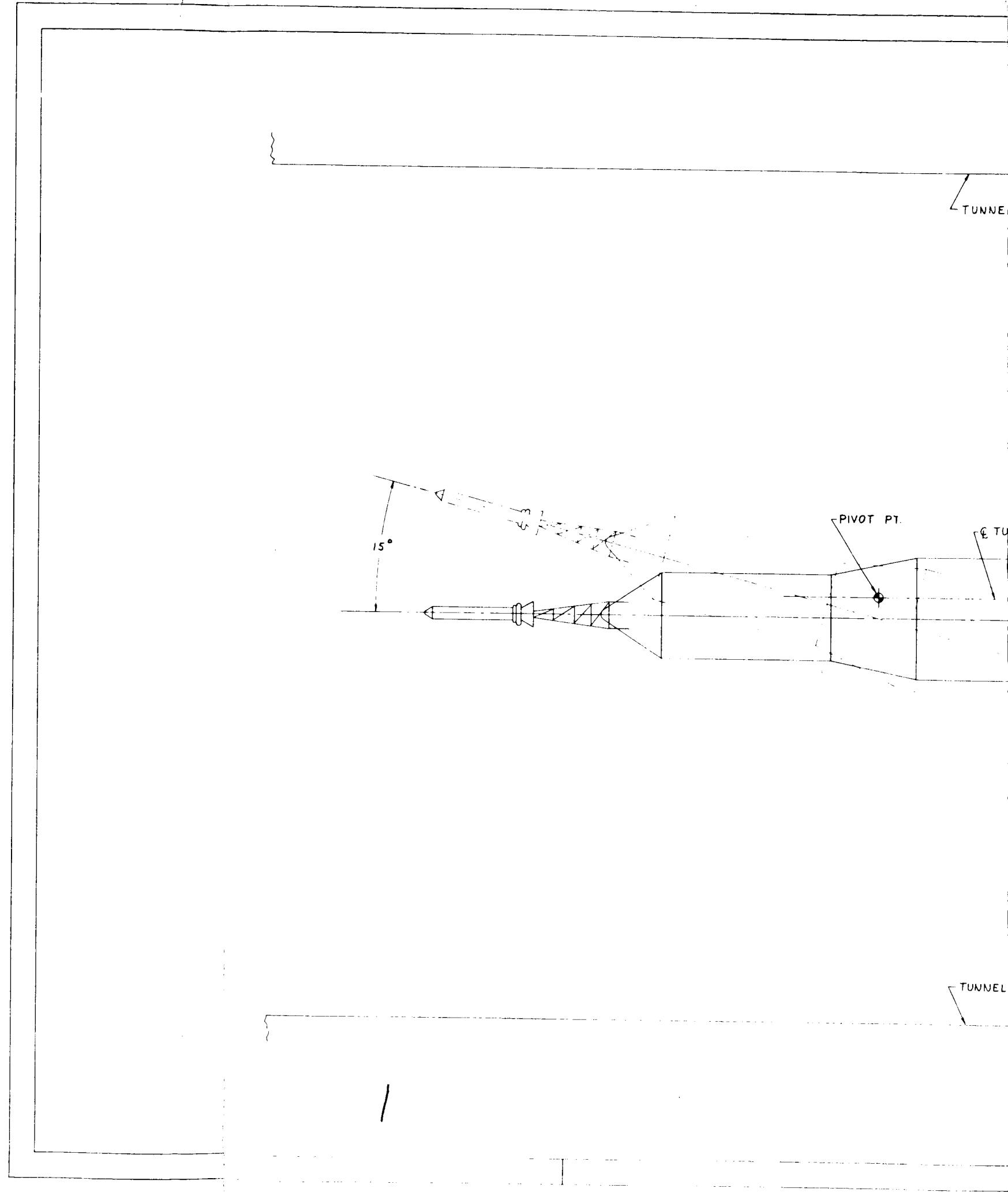
ϕ = Angular coordinate of any pressure orifice, the angle between the vertical plane of symmetry and the plane of symmetry through the orifice, measured from top of model clockwise looking upstream, degrees



IV. TEST PROCEDURE - continued

B. Model Installation

The model was sting mounted as shown on the following page. For subsonic and transonic testing ($M \leq 1.2$) the model was positioned with the center of rotation at tunnel station 3735. For supersonic testing the model center of rotation was at tunnel station 3582.



CEILING (REF)

WING (REF)

7121-01173 MODEL (REF.)

7121-01172-2 STING (REF.)

H-433-3 ADAPTER (REF.)

*5G SOCKET (REF.)

H-825-3 SADDLE (REF.)

FLOOR LINE (REF.)

7121-01174

7121-01174

2

DATE	3-30-62	TRISONIC INSTAL.
DR BY	F. SCHULTZ	NORTH AMERICAN AVIATION, INC. SIGNAL INFORMATION SYSTEMS DIVISION 1000 LAKWOOD BLVD. BURBANK, CALIFORNIA
CHK BY		
APPD BY		.055 SCALE APOLLO
APPD BY		PSTL-1 MODEL
SCALE	1/5	WT
DWG SIZE		
7121-01174		

Page 18 SID-62-929

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IV. TEST PROCEDURE - continued

C. Instrumentation

All steady state pressures were measured using Statham differential pressure transducers of ranges indicated on page 5. The ± 15 psid transducers were referenced to atmospheric pressure, the ± 5 psid transducers were referenced to pressure tanks having variable pressure. Transducer outputs were digitized and recorded on magnetic tape. The data was reduced on the ALWAC IIIE computer and printed out in final form "on-line".

Transient pressure data were measured using Photocon pressure measuring systems. The outputs of the model mounted Photocon transducers were recorded on magnetic tape as follows (for transducer locations see page 8).

Systems 1 through 13 were recorded on an Ampex FR 600. This is an advanced FM recorder with frequency response from 0 to 25 KC. Systems 14 through 19 were recorded on an Ampex FR 100, each system being simultaneously recorded on two channels, one FM channel in the frequency range 0 to 2.5 KC and one Direct channel in the frequency range 100 cps to 25 KC. System 21 was recorded on one Direct channel of the FR 100. Systems 22 and 23 were recorded on a portable Ampex recorder (about 20 cps to 20 KC). System 20 replaced system 1 on the Ampex FR 600 recorder during the runs made to determine tunnel noise level.

~~CONFIDENTIAL~~

IV. TEST PROCEDURE

D. Data Reduction

- 1) Conversion of pressures to coefficient form

$$C_p = \frac{P_x - P_0}{Q}$$

where C_p = Local pressure coefficient

P_x = Local pressure, PSF

P_0 = Free stream static pressure, PSF

Q = Free stream dynamic pressure, PSF

- 2) Tunnel conditions

At $M \leq 1.2$: Mach number was computed from measured values of H_0 and P_0

At $M \geq 1.2$: P_0 was computed from measured value of H_0 and calibrated Mach number

- 3) Transient Pressures

Data reduction methods and results of transient pressure data will be covered in a separate report.

~~CONFIDENTIAL~~

V. REFERENCES

- (a) SID-62-745, "Pretest Report for the 0.055 Scale Apollo Pressure Model (PSTL-1) in NAA Trisonic Wind Tunnel"
- (b) SID-62-432, "Structural Analysis of .055 Scale Apollo Model PSTL-1"
- (c) ALWAC Data Reduction Program C041

NORTH AMERICAN AVIATION, INC.



SPACE and INFORMATION SYSTEMS DIVISION

APPENDIX "A"

A. Run Index

Config = C2S3KIB	C2S3KIB	E35T16C2S3KIB	E35T16C2S3KIB	E40T16C2S3KIB	Noise Probe + C2S3KIB
$\alpha = 0^\circ, 4^\circ$	$0^\circ, 4^\circ$	$2^\circ, 6^\circ$	$-4^\circ, -2^\circ, 10^\circ, 15^\circ$	$0^\circ, 4^\circ$	$2^\circ, 6^\circ$
Mach No.					$-4^\circ, -2^\circ, 10^\circ, 15^\circ$
.7	10	7	8	9	4
.89		19	21	20	22
.92	11	12	18	13	15
.96		28	30	29	25
1.00	38	32	34	31	36
1.06		49	50		52
1.1		47	46	48	42
1.2	58	56	55	57	53
1.5		79	78	77	74
1.75		70	71		73
2.0	88	82	84	83	87
2.5		94	93	92	89
3.0	99	101	102	100	104
3.5		112/114	113/111	115/116	107/109
					108/110
					118/117
					106

*Noise measurement off scale



[REDACTED]

B. DATA FORMAT

The following explanations and definitions apply to the headings in the tabulated data.

DEC	This abbreviation for decimal appears in the data followed by a row of numbers. Each of these numbers locates the decimal place in the column of data below it, the number being equal to the number of digits which appear to the right of the decimal place. The absence of a number in the DEC row in the case of HO and BN indicates that these are whole numbers.
TIME	Time in seconds at which the data point was taken. The opening of the tunnel valve is time zero.
ALPH	Angle of attack in degrees. On the pages of data giving pressure coefficients the angle of attack appears with no indication of decimal point location. In all cases the angle of attack is given to two decimal places (i.e. ALPHA -405 is an angle of attack of -4.05°).
BN	Block number used for locating a particular data point on the magnetic tape.
HO	Free stream total pressure, PSF.
PO	Free stream static pressure, PSF.
M	Mach number
Q	Free stream dynamic pressure, PSF.
TTO	Free stream total temperature, °R.
RN	Reynolds number per foot $\times 10^{-6}$.
V	Free stream velocity, feet per second.
STA	Full scale longitudinal station, in inches, at which a given pressure orifice is located. The station of the tap on the nose of the command module is incorrectly tabulated and plotted as 371.46. The actual station location of this tap is 366.38.



B. DATA FORMAT - con't.

PHI Angular coordinate in degrees of a given pressure orifice, ϕ = angle between vertical plane of symmetry and plane of symmetry through the orifice, measured from the top of the model clockwise looking upstream.

See page A-6 for a sample of the tabulated data format.

TWT 77 BLOW 4

CONFIG E40 T16 C2 S3 K I B

TUNNEL CONDITIONS

TIME	ALPH	BN	HO	PO	M	Q	TTO	RN	V
DEC 1	2			1	3	1	1	3	1
75 -	11	700	4224	30606	694	10328	5295	7811	7479
113 -	8	815	4206	30451	695	10300	5281	7810	7478
153	394	934	4199	30378	696	10305	5264	7837	7475
192	392	1051	4174	30208	696	10233	5244	7826	7456

TWT 77 BLOW 4

CONFIG E40 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q = $\frac{P_x - P_o}{Q}$ ALPHA_x = - 0.11

BN 700

STA	PHI _x (DEG.)	00	45	90	135	180	225	270	280	290	315
	DEC. #	3	3	3	3	3	3	3	3	3	3
371.46	- 143	- 163	- 161	- 161	- 161	- 161	- 161	- 161	- 161	- 161	- 161
378.55	- 143	- 153	- 153	- 153	- 153	- 153	- 153	- 153	- 153	- 153	- 153
398.00	- 166	- 166	- 166	- 166	- 166	- 166	- 166	- 166	- 166	- 166	- 166
425.10	355	348	348	348	348	348	348	348	348	348	348
443.82	275	279	279	279	279	279	279	279	279	279	279
459.10	- 126	- 121	- 121	- 121	- 121	- 121	- 121	- 121	- 121	- 121	- 121
472.37	- 1329	- 1342	- 1342	- 1342	- 1342	- 1342	- 1342	- 1342	- 1342	- 1342	- 1342
479.28	- 271	- 273	- 273	- 273	- 273	- 273	- 273	- 273	- 273	- 273	- 273
500.00	- 32	- 34	- 34	- 34	- 34	- 34	- 34	- 34	- 34	- 34	- 34
516.37	$\frac{P_x - P_o}{Q}$	(3 DECIMAL PLACES)	223	203	203	203	203	203	203	203	203
572.00	404	294	294	294	294	294	294	294	294	294	294
756.73	774.92	793.10	811.28	829.46	847.64	865.83	930.19	962.86	1187.65	1323.83	1323.83
6	(DEC)	301	301	301	301	301	301	301	301	301	301
	PHI _x	22.5	67.5	112.5	157.5						
	DEC. #	3	3	3	3						

SID 62 929
APPENDIX A

TWT 77 BLOW 4

CONFIG E40 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/G

ALPHA - 8 BN 815

STA PHI = 00 45 90 135 180 225 270 280 290 315

DEC = 3 3 3 3 3 3 3 3 3 3
371.46 - 128 - 161 - 151
378.55 - 158 - 146 - 106 - 133 - 88
398.00 - 182 - 176 - 132
425.10 - 324 - 349 - 320 - 312 - 315
443.82 - 270 - 268 - 276 - 271
459.10 - 305

472.37 - 158 - 98 - 128 - 101 - 126

479.28 - 1304 - 1325 - 1316 - 1275 - 1312 - 1274

500.00 - 267 - 269 - 267 - 262 - 253 - 305

516.37 - 31 - 29 - 38 - 32 - 27 - 53

572.00 - 226 - 208 - 205 - 206 - 203
756.73 - 389 - 394 - 291 - 293 - 291

7

774.92 - 293 - 281 - 301 - 292
793.10 - 207 - 201 - 204 - 190
811.28 - 192 - 150 - 132 - 150 - 157

829.46 - 110 - 55
847.64 - 930.19 - 442 - 496 - 478 - 479 - 477

962.86 - 149 - 159 - 145 - 166 - 145
1187.65 - 149 - 159 - 145 - 166 - 145

STA PHI = 22.5 67.5 112.5 157.5

STA PHI = 00 45 90 135 180 225 270 280 290 315
1323.83 - 477 - 509 - 506 - 477

SID 62 929
APPENDIX A

TWT 77 BLOW 4

CONFIG E40 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA 394 BN 934

STA	PHI =	00	45	90	135	180	225	270	280	290	315
	DEC#	-	121	-	141	-	136				
371.46		-	97	-	96	-	52	174			
378.55		-	95		337		707				
398.00		-	103	151	380	594	611				
425.10		-	111	253	352	392					
443.82		-	273	190	-	168	-	88	-		
459.10		-	905	-	1205	-	1318	-	1292	-	1303
472.37		-	260	-	311	-	422	-	498	-	507
479.28		-	56	-	54	-	51	-	35	-	10
500.00		-	162	163	188	224	233				
516.37		-	269	238	282	319	345				
572.00		-	756.73	243	279	344	358				
774.92		-	793.10	137	200	235	280				
811.28		-	829.46	126	104	148	179	231			
847.64		45	865.83	7	378	-	456	-	511	-	496
865.83			930.19	-	141	-	151	-	137	-	125
930.19			962.86	-	123	141	145	175	175	158	
962.86			1187.65								

STA PHI = 22.5 67.5 112.5 157.5

DEC#	3	3	3	3	3	3	3	3	3	3	3
1323.83	-	495	-	548	-	498	-	532			

SID 62 929

APPENDIX A

TWT 777 BLOW 4

CONFIG E40 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA 392 BN 1051

STA	PHI =	00	45	90	135	180	225	270	280	290	315
	DEC =	3	3	3	3	3	3	3	3	3	3
371.46	-	126	-	-	-	-	-	-	-	-	-
378.55	-	100	-	115	-	150	-	148	-	-	-
398.00	-	-	-	-	-	11	-	61	176	-	-
425.10	75	-	-	-	-	343	-	-	-	-	-
443.82	71	173	-	-	-	388	555	597	641	647	-
459.10	115	-	-	-	-	246	352	379	-	-	-
472.37	-	305	-	207	-	159	-	72	-	92	-
479.28	-	883	-	1197	-	1310	-	1299	-	1318	-
500.00	-	256	-	310	-	423	-	492	-	488	-
516.37	-	-	-	-	-	-	-	-	-	-	-
572.00	-	62	-	55	-	51	-	32	-	14	-
756.73	158	156	-	187	-	221	-	221	-	237	-
774.92	265	245	-	279	-	321	-	321	-	348	-
793.10	-	-	233	-	287	-	344	-	355	-	-
811.28	-	-	157	187	-	238	-	238	-	251	-
829.46	114	83	-	165	-	210	-	210	-	230	-
847.64	-	41	-	-	-	-	-	-	-	-	-
865.83	-	6	-	-	-	-	-	-	-	-	-
930.19	-	357	-	471	-	516	-	489	-	484	-
962.86	-	-	142	-	151	-	139	-	124	-	-
1187.65	120	140	-	144	-	173	-	173	-	158	-
STA	PHI =	22.5	67.5	112.5	157.5						

1323.83

DEC = 3 3 3 3 3 3

- 485 - 552 - 498 - 525

SID 62 929

APPENDIX A

TWT 77 BLOW 5
CONFIG E40 T16 C2 S3 K 1 B

TUNNEL CONDITIONS

TIME	ALPH	BN	HO	PO	M	Q	TTO	RN	V
DEC 1	2			1	3	1	1	3	1
75	201	1040	4200	30469	693	10243	5966	6660	7925
113	201	1155	4204	30347	699	10366	5302	7791	7525
150	603	1265	4203	30327	699	10373	5286	7821	7519
188	601	1379	4175	30112	700	10315	5271	7802	7514

TWT 77 BLOW

5

CONFIG E40 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA 201 BN 1040

STA	PHI =	00	45	90	135	180	225	270	280	290	315
	DEC#	3	3	3	3	3	3	3	3	3	3

371.46	-	129	-	156	-	153					
378.55	-	120	-	57	-	79	64				
398.00											
425.10	116			314			446				
443.82	177	225	367	466	481						
459.10	159	255	317	321							
472.37	-	204	-	200	-	159	-	89	-	120	
479.28	-	1065	-	1225	-	1321	-	1362	-	1387	-
500.00	-	267	-	285	-	334	-	381	-	374	-
516.37											
572.00	-	43	-	39	-	37	-	35	-	18	-
756.73	-	196	-	184	-	197	-	220	-	224	-
774.92	344	263	284	311	320						
793.10	269	292	316	313							
811.28	194	227	222	247							
829.46	170	114	158	178	174						
847.64	66										
865.83	26										
930.19	-	413	-	462	-	484	-	482	-	486	
962.86	-	137	-	145	-	132	-	131	-		
1187.65	133	146	146	172	172	155					

STA	PHI =	22.5	67.5	112.5	157.5
	DEC#	3	3	3	3

1323.83

- 464 - 523 - 506 - 511

TWT 77 BLOW 5

CONFIG E40 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P1)/C

ALPHA 201 BN 1155

STA	PHI#	00	45	90	135	180	225	270	280	290	315
	DEC#	3	3	3	3	3	3	3	3	3	3
371.46	-	126	-	-	135	-	-	163			
378.55	-	107	-	92	-	28	-	106	34		
398.00			-								191
425.10		112			263						449
443.82		169	208		348		470				495
459.10			158	257			322				343
472.37	-	213	-	173	-	150	-	99	-	102	
479.28	-	1037	-	1231	-	1305	-	1339	-	1364	-
500.00	-	261	-	286	-	333	-	360	-	368	-
516.37											87
572.00	-	43	-	38	-	37	-	26	-	21	-
756.73		191		186		200		214		222	
774.92		349	261		290		310				323
793.10			263	283		309		309		316	
811.28			183		211		237				235
829.46		155	96		139		201				182
847.64			79								
865.83		27									
930.19	-	400	-	445	-	493	-	489	-	495	
962.86			-	132	-	139	-	133	-	129	
1187.65		140	148		148		172		152		

12

STA	PHI#	22.05	67.05	112.05	157.05
	DEC#	3	3	3	3
1323.83	-	474	-	515 - 497	- 507

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TWT 77 BLOW 5

CONFIG E40 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA 603 BN 1265

STA	PHI =	00	45	90	135	180	225	270	280	290	315
	DEC#	3	3	3	3	3	3	3	3	3	3
371•46	-	124									
378•55	-	68	-	192	-						39
398•00	-		159	72	56						452
425•10	49			434							844
443•82	40	129	394	579	622						134
459•10	81	247	330	387							
472•37	-	320	-	239	-	197	-	94	-	63	
479•28	-	807	-	1253	-	1215	-	1224	-	1238	-
500•00	-	242	-	365	-	596	-	619	-	587	-
516•37											541
572•00	-	57	-	53	-	61	-	27	-	1	
756•73	143	149	175	223	252						39
774•92	253	221	271	332	374						
793•10	3	212	261	337	377						
811•28		137	193	245	312						
829•46	112	109	106	192	235						
847•64		28									
865•83	-	12									
930•19	-	381	-	464	-	531	-	495	-	478	
962•86	-	144	-	165	-	129	-	107			
1187•65	116	134	144	177	174						

STA PHI = 22.5 67.5 112.5 157.5

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1323.83 - 501 - 582 - 500 - 542

TWT 77 BLOW 5

PRESSURE COEFFICIENTS (DELTA P) / Q

PRESSURE COEFFICIENTS (DELTA P)/Q

1379
BN
WMA 601

371.46	-	124	-	164	-	54
378.55	-	64	-	156	89	5
398.00	-	21	411	406	581	592
425.10	12	135	411	838	477	
443.82						121

459•10		69	234	343	384	
472•37	-	326	-	185	-	64
479•28	-	803	-	1244	-	1234
500.00	-	244	-	369	-	601
516•37	-	57	-	55	-	62
572•00	-				-	27
					-	322
					-	60
					-	36

1

STA FILE ELEVEN
DEC 3 1999 - 567 - 502 - 534
23.83

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APPENDIX

APPENDIX A

TWT 77 BLOW 6

CONFIG E40 T16 C2 S3 K I B

TUNNEL CONDITIONS

TIME	ALPH	BN	HO	PO	M	Q	TTO	RN	V
DEC 1	2				1	3	1	1	3
55 -	374	632	4207	30615	689	10183	5324	7690	7450
94 -	171	750	4216	30400	700	10420	5322	7782	7552
133	1033	866	4199	30270	700	10382	5314	7768	7548
170	1495	977	4187	30298	696	10268	5300	7743	7497

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APPENDIX A

TMT 77 BELOW 6

CONFIG_E40 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (ΔP)/0

ALPHA	-	374		BN	632								
STA	PHI=	00		45	90	135	180	225	270	280	290		315
	DEC=	3		3	3	3	3	3	3	3	3		
371•46	-	125		-	138	-	-	-	79				
378•55	-	120		-	86	37	-	77	-	19			
398•00	-					332			97				
425•10	647					360	176	104					542
443•82	587	520				230	105						
459•10		312											
472•37	-	132	-	101	-	180	-	208	-	277			
479•28	-	1311	-	1340	-	1312	-	1221	-	920	-	1220	
500•00	-	474	-	451	-	401	-	306	-	251	-	505	
516•37	-	19	-	28	-	50	-	46	-	51	-	138	
572•00	-	257	218			190	170	148			-	34	35
756•73													
774•92	477					322	280	245		210			
793•10						326	260	222		202			
811•28						211	184	167		151			
829•46	242					155	129	99		98			
847•64						173							
865•83						98							
930•19	-	458	-	494	-	505	-	454	-	412			
962•86						132	-	149	-	142	-	124	
1187•65		165		168		139		144		144		117	
STA	PHI=	22.5		67.5	112.5	157.5							
	DEC=	3		3		3		3		3		3	494
13223.83	-	499	-	523	-	527	-	527	-	494			

5

SID 62 929
APPENDIX A

TWT 77 BLOW 6

CONFIG E40 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA - 171 BN 750

STA	PHI =	00	45	90	135	180	225	270	280	290	315
371•46	DEC=	- 140	3	3	3	3	3	3	3	3	3
378•55		- 159	-	-	141	-	-	116			
398•00		-	91	-	35	-	67	-	31		
425•10		394			247				110		
443•82		457	447		342		203	174			
459•10			294		247		146	99			
472•37		- 131	- 112	-	151	-	175	-	210		
479•28		- 1322	- 1338	-	1277	-	1158	-	1033	-	1173
500•00		- 349	- 332	-	307	-	275	-	256	-	384
516•37										-	
572•00		- 27	- 31	-	34	-	36	-	41	-	76
756•73		242	213		196		182		169		28
774•92		428	301		281		261		239		
793•10			294		279		248		237		
811•28			209		205		178		176		
829•46		232	165		149		111		113		
847•64		131									
865•83		77									
930•19		- 468	- 475	-	473	-	450	-	426		
962•86			- 130	-	139	-	134	-	129		
1187•65		154	165		143		151		126		
STA	PHI =	22•5	67•5	112•5	157•5						
1323•83	DEC=	3	3	3	3						
		- 474	- 488	-	502	-	471				

SID 62 929

APPENDIX A

TWT 77 BLOW 6

CONFIG E40 T16 C2 S3 K I B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA	1033	BN	866	180	225	270	280	290	315
STA	PHI=	00	45	90	135	180	220	230	3
	DEC=	3	3	3	3	3	3	3	3
371.46	-	367	-	386	502				
378.55	-	92	-	5	250	165	1054		
398.00	-	8			442		768		
425.10	-	18	79	310	514	597			
443.82	-			13	153	307	421		
459.10	-	426	-	302	-	242	-	78	10
472.37	-	923	-	959	-	1154	-	1344	-
479.28	-	253	-	685	-	809	-	1210	-
500.00	-				490	-	480	-	1179
516.37	-	53	-	80	-	118	-	480	-
572.00	-	122	120	104	104	208	289	-	
756.73	-	234	187	209	209	329	427		
774.92	-			168	203	349	447		
793.10	-			73	117	258	362		
811.28	-			63	16	55	213		
829.46	-								
847.64	-								
865.83	-								
930.19	-								
962.86	-								
1187.65	-								

STA	PHI=	22.5	67.5	112.5	157.5
	DEC=	3	3	3	3
1323.83	-	516	-	493	-

SID 62 929

APPENDIX A

TWT 77 BLOW 6

CONFIG E40 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA	1495	BN	977								
STA	PHI =	00	45	90	135	180	225	270	280	290	315
	DEC =	3	3	3	3	3	3	3	3	3	3
371.46	-	824	-	529	-	1064	-	-	-	-	-
378.55	-	79	167	330	721	1030	-	-	-	-	44
398.00	-	42	-	275	-	826	-	-	-	-	-
425.10	-	74	20	168	496	675	-	-	-	-	-
443.82	-	-	107	31	327	509	-	-	-	-	-
459.10	-	-	-	-	-	-	-	-	-	-	-
472.37	-	487	-	338	-	68	78	-	-	-	-
479.28	-	1124	-	1263	-	1497	-	1206	-	1245	-
500.00	-	375	-	764	-	275	-	147	-	801	-
516.37	-	57	-	129	-	240	-	72	65	-	488
572.00	-	98	-	84	-	22	-	171	329	-	208
756.73	-	209	-	145	-	82	-	300	476	-	187
774.92	-	-	-	-	-	-	-	-	-	-	-
793.10	-	-	-	100	-	77	-	322	502	-	-
811.28	-	-	-	14	-	8	-	236	427	-	-
829.46	-	43	-	55	-	53	-	162	383	-	-
847.64	-	31	-	64	-	-	-	-	-	-	-
865.83	-	-	-	-	-	-	-	-	-	-	-
930.19	-	381	-	598	-	691	-	462	-	323	-
962.86	-	-	-	187	-	319	-	164	-	7	-
1187.65	-	74	-	41	-	7	-	76	-	235	-
STA	PHI =	22.5	67.5	112.5	157.5						
	DEC =	3	3	3	3	3	3	3	3	3	3
1323.83	-	499	-	594	-	597	-	535	-	-	-

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SID 62 929

APPENDIX A

TWT 77 BLOW 7

2ND REDUCTION

CONFIG E35 T16 C2 S3 K 1 B

TUNNEL CONDITIONS

TIME	ALPH	BN	HO	PO	M	Q	TT0	RN	V
DEC 1	2		1	1	3	1	1	3	1
72 -	3	713	4211	30464	696	10335	5344	7708	7532
112 -	2	833	4203	30432	695	10295	5341	7692	7520
151	401	949	4208	30395	698	10365	5336	7731	7544
188	416	1061	4183	30164	700	10336	5319	7727	7549
228 -	8	1180	3950	29051	677	9328	5228	7312	7265

~~CONFIDENTIAL~~

TWT 77 BLOW 7 2ND RED.

CONFIG E35 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA = 3 BN 713

STA	PHI=	00	45	90	135	180	225	270	280	290	315
DEC=		3	3	3	3	3	3	3	3	3	3
371.46		20									
378.55	-	6	-	13	-	12	6	9	10	10	
398.00		320				325					284
425.10		429	413	424	424	398	418				391
443.82				259	267	267	267				
459.10											244
472.37	-	193	-	190	-	181	-	181	-	179	
479.28	-	1383	-	1362	-	1346	-	1369	-	1379	-
500.00	-	477	-	482	-	477	-	461	-	460	-
516.37											541
572.00	-	41	-	38	-	41	-	45	-	34	-
756.73		223	195	198	198	203	203	198			
774.92		398	285	280	282	282	282	281			
793.10			268	282	282	266	266	279			
811.26			198	207	207	206	206	202			
829.46		194	156	145	136	157					
847.64			104								
865.83			64								
930.19	-	458	-	481	-	474	-	459	-	468	
962.86			-	130	-	139	-	127	-	127	
1187.65		149	158	146	146	164	164	147			

STA PHI= 22.5 67.5 112.5 157.5

APPENDIX A

SID 62 929

1323.83

DEC= 3 3 3 3 3

TWT 77 BLOW 7 2ND RED.

CONFIG E35 T16 C2 S3 K 1 B
PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA - 2 BN 833

STA	PHI#	00	45	90	135	180	225	270	280	290	315
DEC#	3	3	3	3	3	3	3	3	3	3	3
371.46	10	-	-	-	15	-	-	-	-	-	-
378.55	-1	-	2	-	16	10	17	-	-	-	-
398.00	-	-	-	-	327	-	302	-	-	-	-
425.10	300	-	-	-	-	-	-	-	-	-	-
443.82	415	405	-	412	413	404	-	-	-	-	422
459.10	-	263	-	254	248	244	-	-	-	-	-
472.37	-	178	-	160	-	191	-	182	-	196	-
479.28	-	1397	-	1372	-	1342	-	1384	-	1391	-
500.00	-	479	-	474	-	481	-	466	-	471	-
516.37	-	-	-	-	-	-	-	-	-	-	-
572.00	-	45	-	43	-	51	-	44	-	47	-
756.73	213	202	-	197	-	194	-	195	-	-	-
774.92	369	279	-	278	-	275	-	277	-	-	-
793.10	-	274	-	276	-	285	-	277	-	-	-
811.28	-	190	-	194	-	201	-	187	-	-	-
829.46	-	183	-	147	-	124	-	166	-	144	-
847.64	-	101	-	-	-	-	-	-	-	-	-
865.83	-	68	-	-	-	-	-	-	-	-	-
930.19	-	463	-	449	-	490	-	466	-	456	-
962.86	-	-	-	133	-	136	-	141	-	140	-
1187.65	149	158	-	143	-	159	-	140	-	-	-

STA PHI# 22.5 67.5 112.5 157.5
DEC# 3 3 3 3
1323.83 - 475 - 497 - 485 - 497

SID 62 929
APPENDIX A

TWT 77 BLOW 7 2ND RED.

CONFIG E35 T16 C2 S3 K I 8

PRESSURE COEFFICIENTS (DELTAP)/Q

SID 62 929

TWT 77 BLOW 7 2ND RED.

CONFIG E35 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA 416 BN 1061

STA	PHI =	00	45	90	135	180	225	270	280	290	315
371.46	DEC =	3	3	3	3	3	3	3	3	3	3
378.55		20	-	-	36	-	-	-	-	-	-
398.00		16	-	36	-	20	-	32	-	129	-
425.10		129	-	-	394	-	-	-	-	740	-
443.82		106	223	438	537	564	-	-	-	-	-
459.10		135	254	302	322	-	-	-	-	-	-
472.37		365	-	254	-	183	-	115	-	114	-
479.28		-	1295	-	1365	-	1250	-	1265	-	1229
500.00		-	364	-	457	-	627	-	659	-	669
516.37		-	73	-	56	-	51	-	32	-	15
572.00		-	166	170	184	219	230	-	-	-	-
756.73		267	241	272	311	336	-	-	-	-	-
774.92		235	268	320	343	-	-	-	-	-	-
793.10		161	200	246	264	-	-	-	-	-	-
811.28		114	97	147	181	212	-	-	-	-	-
829.46		45	-	-	-	-	-	-	-	-	-
847.64		5	-	-	-	-	-	-	-	-	-
865.83		-	380	-	462	-	512	-	498	-	483
930.19		-	-	-	-	-	-	-	-	-	-
962.86		-	142	-	150	-	133	-	121	-	-
1187.65		127	143	143	173	173	160	-	-	-	-

STA PHI = 22.5 67.5 112.5 157.5

STA	PHI =	3	3	3	3	3	3	3	3	3	3
1323.83	DEC =	-	470	-	557	-	506	-	517	-	-

SID 62 929

APPENDIX A

TWT 77 BLOW 8

CONFIG E35 T16 C2 S3 K I B

TUNNEL CONDITIONS

	TIME	ALPH	BN	HO	PO	M	Q	TTO	RN	V
DEC 1	2				1	3	1	1	3	1
69	205	686	4230	30423	703	10514	5344	7785	7596	
108	208	802	4209	30423	697	10345	5343	7712	7539	
147	611	918	4208	30306	701	10428	5332	7757	7573	
185	608	1032	4185	30184	700	10343	5317	7735	7547	

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SID 62 929
APPENDIX A

TWT 77 BLOW 8

CONFIG E35 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA 205 BN 686

STA	PHI =	00	45	90	135	180	225	270	280	290	315
	DEC =	3	3	3	3	3	3	3	3	3	3

371.46		3	-	14	-	33					
378.55		12	-	9	6	-	21	43			
398.00			180		361			523			
425.10			263	295	430	515	516				
443.82				185	260	307	308				
459.10					182	-	127	-	154		
472.37		-	260	-	206	-					
479.28		-	1346	-	1354	-	1316	-	1310	-	1317
500.00		-	406	-	433	-	528	-	564	-	589
516.37		-		-	406	-				-	
572.00		-	53	-	46	-	43	-	37	-	30
756.73			193	184	192	209	214				
774.92			325	259	274	295	312				
793.10				251	265	301	310				
811.28					187	208	232	209			
829.46					138	129	159	164	168		
847.64					78						
865.83					34						
930.19		-	407	-	481	-	484	-	469	-	475
962.86		-		-	135	-	144	-	131	-	126
1187.65					135	148	143	169	153		

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STA	PHI =	22.5	67.5	112.5	157.5
	DEC =	3	3	3	3

SID 62 929

APPENDIX A

TWT 77 BLOW 8

CONFIG E35 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA 208 BN 802

STA	PHI=	00	45	90	135	180	225	270	280	290	315
DEC#		3	3	3	3	3	3	3	3	3	3
371.46		3	3	3	3	3	3	3	3	3	3
378.55		28	-	8	6	-	40	-	41	-	41
398.00			11	6	-	40	-	57	-	57	-
425.10		179		341							
443.82		229	324	419	497	528					
459.10		190	252	300	300	311					
472.37		279	222	185	152	135					
479.28		- 1370	- 1370	- 1333	- 1321	- 1314	- 1331				
500.00		- 401	- 446	- 523	- 567	- 591	-	543	-	543	-
516.37											
572.00		- 56	- 52	- 47	- 32	- 30	-				
756.73		187	186	198	209	216					
774.92		311	256	278	304	314					
793.10		248	280	301	311						
811.28		174	200	229	241						
829.46		144	145	149	155	180					
847.64		73									
865.83		28									
930.19		- 431	- 454	- 487	- 470	- 478					
962.86		-	138	- 144	- 132	- 128					
1187.65		137	149	146	174	154					

STA PHI= 22.5 67.5 112.5 157.5

SID 62 929
APPENDIX A

TWT 77 BLOW 8

CONFIG E35 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA 611 BN 918

STA	PHI =	00	45	90	135	180	225	270	280	290	315
371.46	DEC =	3	3	3	3	3	3	3	3	3	3
378.55		- 16	-	- 84	-	-	-	- 24			
398.00		- 14	-	81	73	141	482				
425.10		134		550		798					
443.82		87	217	423	519	542					
459.10			103	229	282	342					
472.37		- 413	-	303	- 205	- 113	- 90				
479.28		- 1204	-	1259	- 1105	- 1261	- 1167	- 1255			
500.00		- 357	-	578	- 769	- 699	- 710				
516.37			- 73	- 65	- 64	- 33	- 3				
572.00				145	150	166	219	249			
756.73				246	213	259	327	367			
774.92					219	259	344	380			
793.10					126	170	251	313			
811.28					93	89	126	185	245		
829.46					26						
847.64											
865.83											
930.19											
962.86											
1187.65											

STA PHI = 22.05 67.05 112.05 157.05

STA	PHI =	00	45	90	135	180	225	270	280	290	315
1323.83	DEC =	3	3	3	3	3	3	3	3	3	3
		- 485	-	563	-	510	-	528			

SID 62 929
APPENDIX A

TWT 77 BLOW 8

CONFIG E35 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA 608 BN 1032

STA	PHI =	00	45	90	135	180	225	270	280	290	315
	DEC =	3	3	3	3	3	3	3	3	3	3
371.46	-	26	-	-	-	-	-	-	-	-	-
378.55	-	9	-	100	53	141	-	42	-	-	-
398.00	-	-	-	-	-	-	-	-	-	-	-
425.10	141	-	-	-	532	-	-	-	-	-	-
443.82	84	207	436	508	552	786	-	-	-	-	-
459.10	107	228	275	336	-	-	-	-	-	-	-
472.37	-	409	250	197	117	-	-	-	-	-	-
479.28	-	1208	1282	1079	1272	1170	-	1266	-	-	-
500.00	-	359	568	761	701	712	-	752	-	-	-
516.37	-	-	-	-	-	-	-	-	-	-	-
572.00	-	72	60	68	36	7	-	79	-	475	-
756.73	-	150	153	168	219	250	-	-	-	-	-
774.92	244	215	262	329	370	-	-	-	-	-	-
793.10	-	203	260	335	380	-	-	-	-	-	-
811.28	-	132	178	259	283	-	-	-	-	-	-
829.46	-	78	62	119	205	240	-	-	-	-	-
847.64	-	24	-	-	-	-	-	-	-	-	-
865.83	-	15	-	-	-	-	-	-	-	-	-
930.19	-	358	475	544	495	480	-	-	-	-	-
962.86	-	147	168	132	104	-	-	-	-	-	-
1187.65	114	134	137	175	172	-	-	-	-	-	-

STA PHI = 22.5 67.5 112.5 157.5

1323.83 DEC = 3 3 3 3 3
- 488 - 568 - 506 - 531

SID 62 929
APPENDIX A

TWT 77 BLOW 9

CONFIG E35 T16 C2 S3 K 1 B

TUNNEL CONDITIONS

TIME	ALPH	BN	HO	PO	M	Q	TTO	RN	V
DEC 1	2			1	3	1	1	3	1
72 -	394	674	4231	30654	694	10348	5368	7688	7532
111 -	188	790	4207	30528	693	10251	5372	7625	7516
149	1017	905	4202	30334	699	10362	5363	7673	7569
188	1491	1021	4177	30240	695	10235	5348	7634	7527

TWT 77 BLOW 9

CONFIG E35 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA - 394 BN 674

STA	PHI =	00	45	90	135	180	225	270	280	290	315
		DEC =	3	3	3	3	3	3	3	3	3
371.46		- 15									
378.55		- 68	- 46	- 51							
398.00											
425.10		768		382							
443.82		563	534	425	243						
459.10		301		257	121	9					
472.37		- 163	- 139	- 203							
479.28		- 1235	- 1260	- 1249	- 1404	- 1321					
500.00		- 676	- 656	- 624	- 445	- 380					
516.37											
572.00		- 23	- 29	- 50	- 60	- 62					
756.73		259	217	186	173	154					
774.92		454	318	276	237	211					
793.10		322	270	222							
811.28		252	206	172	171						
829.46		237	164	155	57	115					
847.64		161									
865.83		115									
930.19		- 480	- 527	- 505	- 459	- 416					
962.86		- 131	- 154	- 143	- 136						
1187.65		168	172	140	146	120					

STA PHI = 22.5 67.5 112.5 157.5
DEC = 3 3 3 3
SID 1323.83 - 502 - 512 - 544 - 479

APPENDIX A

TWT 77 BLOW 9

CONFIG E35 T16 C2 S3 K I B

PRESSURE COEFFICIENTS (DELTA P)/Q

STA	PHI =	00	45	90	790	135	180	225	270	280	290	315
	DEC =	3	3	3	-	3	3	3	3	3	3	3
371.46		21	-	-	21	14						
378.55		22	-	14	5	18	43					
398.00		533	3	3	3	3	3	3	3	3	3	3
425.10		523	499	417	287	231						
443.82		293	246	173	132							
459.10		145	-	143	-	209	-	225	-	255		
472.37		-	1320	-	1331	-	1333	-	1399	-	1404	-
479.28		-	571	-	546	-	517	-	422	-	408	-
500.00		-	38	-	35	-	48	-	53	-	52	-
516.37		238	208	194	183	178						
572.00		756.73	431	301	278	256	246					
774.92		793.10	305	285	238	227						
811.28		829.46	227	205	182	178						
847.64		847.64	215	167	140	122	102					
865.83		865.83	144									
930.19		930.19	92									
962.86		962.86	-	485	-	464	-	484	-	449	-	443
1187.65		1187.65	158	167	145	155	131					
STA	PHI =	22.5	67.5	112.5	157.5							
1323.83	DEC =	3	3	3	3	3	3	3	3	3	3	3
		- 488	- 500	- 510	- 473							

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SID 62 929

APPENDIX A

TWT 77 BELOW

CONCLUDING REMARKS

PRESSURE COEFFICIENTS (DELTA P)/Q

SID 62 929

APPENDIX A

TWT 77 BLOW 10 2ND REDUCTION

CONFIG C2 S3 K I B

TUNNEL CONDITIONS

TIME	ALPH	BN	HO	PO	M	Q	TTO	RN	V
DEC 1	2				1	3	1	1	3
70	6	631	4210	30559	692	10256	5365	7643	7510
108	8	745	4209	30320	701	10426	5368	7691	7596
147	411	861	4197	30376	696	10290	5362	7647	7539
186	408	978	4178	30186	698	10282	5346	7653	7547

TWT 77 BLOW 10

CONFIG C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA	6	BN	631	180	225	270	280	290	315
STA	PHI=	00	45	90	135	3	3	3	3
DEC=	1134	700	621	577	565	576	576	576	576
371•46									
378•55									
398•00									
425•10									
443•82									
459•10									
472•37									
479•28									
500•00									
516•37									
572•00									
756•73									
774•92									
793•10									
811•28									
829•46									
847•64									
865•83									
930•19									
962•86									
1187•65									

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STA	PHI=	22•5	67•5	112•5	157•5
DEC=	-	3	3	3	3
1323•83					

SID 62 929

APPENDIX A

~~CONFIDENTIAL~~

TWT 77 BLOW 10

CONFIG C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA

STA PHI = 00 45 90 135 180 225 270 280 290 315

	DEC =	3	3	3	3	3	3	3	3	3
371•46	1146									
378•55	725									
398•00		634	589	599	596					
425•10	458		462							
443•82	318	322	323	321	314					
459•10		168	179	149	157					
472•37	- 216 -	230 -	211 -	185 -	192					
479•28	- 812 -	823 -	852 -	833 -	835 -	825				
500•00	- 725 -	733 -	748 -	746 -	742					
516•37										- 758
572•00	- 140 -	128 -	118 -	130 -	122					- 562
756•73	219	198	200	202	203					- 97
774•92	361	266	275	273	270					
793•10		269	286	276	268					
811•28		207	218	202	238					
829•46	205	159	163	148	177					
847•64		116								
865•83	69									
9 30•19	- 406 -	412 -	426 -	412 -	419					
9 62•86		115 -	119 -	114 -	114					
1 187•65	163	170	157	172	154					

STA PHI = 22.5 67.5 112.5 157.5

SIS 1323.83

DEC = 3 3 3 3

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APPENDIX A

TWT 77 BLOW 10

CONFIG C2 S3 K I B

PRESSURE COEFFICIENTS (ΔP)/Q

861 BN 411 ALPHABETICAL INDEX

371•46	1131			
378•55	599	694	794	
398•00	540	571	657	673
425•10	337	433		513
443•82	221	248	302	366
				412

459.10	105	148	206	210
472.37	- 277	- 256	- 172	- 161
479.28	- 592	- 694	- 1063	- 1005
500.00	- 587	- 641	- 845	- 863
				- 784

847•64	46					
865•83	5					
930•19	-	329	-	445	-	509
962•86			-	130	-	152
1187•65	116			135		142
					-	171
					-	480
					-	115
					-	162

STA	PHI =	22.5	67.5	112.5	157.5
	DEC =	- 467	- 545	- 502	- 526
1323.83					

SID 62 9

TWT 77 BLOW 10

CONFIG

C2 S3 K I B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA

BN 978

STA	PHI =	00	45	90	135	180	225	270	280	290	315
371•46	DEC =	3	3	3	3	3	3	3	3	3	3
378•55		1129		707		797					
398•00		611		537		564		645		670	
425•10				348		446				536	
443•82				225		253		296		371	
459•10						96		141		204	
472•37						277		233		241	
479•28						562		672		844	
500•00						556		619		745	
516•37										829	
572•00										855	
756•73											- 642
774•92											- 131
793•10											- 241
811•28											
829•46											
847•64											
865•83											
930•19											
962•86											
1187•65											

STA PHI = 22•5 67•5 112•5 157•5

DEC = 3 3 3 3 3
1323•83 - 491 - 555 - 494 - 522

SID 62 929
APPENDIX A

TWT 77 BLOW 11

CONFIG C2 S3 K 1 &

TUNNEL CONDITIONS

TIME	ALPH	BN	HO	PO	M	Q	TTU	RN	V
DEC 1	2			1	3	1	1	3	1
80 -	5	1327	3958	22861	921	13588	5387	8236	9693
118 -	3	1441	3969	22844	925	13669	5394	8255	9727
157	401	1559	3937	22584	927	13599	5379	8227	9739
195	398	1672	3903	22475	924	13434	5363	8176	9695

TWT 77 BLOW 11

CONCLUDING

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA - 5 BN 1327

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3.82	481	491	470	487	508	492
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99.28 = 619 - 839 = 931 - 460 = 436 = 433

6.37 4.75

2.00 - 459 = 409 - 481 = 444 - 422 = 434 = 402

4.92 **207** **194** **229** **137** **96**

300-314

9-46 208 218 246 173 173

164 / 64

8619 - = 406 - 459 - 514 - 341 - 272

$$2.88 = 104 - 84 = 98 = 75$$

PHI = 32.0 8.0 311.0 13.0

282

SID 62 929
APPENDIX

TWT 77 BLOW 11

CONFIG C2 S3 K I B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA	-	3		BN	1441	135	180	225	270	280	290	315
STA	PHI=	00	45	90		3	3	3	3	3	3	3
	DEC=	3	3	3		3	3	3	3	3	3	3
371•46		1234		825		815						
378•55		843		757	727	716	717					
398•00				593	596		572					
425•10				495	489	485	486	489				
443•82					374	376	359	361				
459•10				1C3	134	148	143	127				
472•37				-	582	-	641	-	553	-		
479•28				-	-	-	-	520				
500•00				-	-	-	-	559				
516•37				-	456	-	472	-	447	-	428	-
572•00				-	-	106	145	127	140	140	129	
756•73				-	-	-	-	-	-	-	-	
774•92				-	-	158	195	170	181	181	177	
793•10				-	-	-	229	206	215	215	205	
811•28				-	-	-	226	222	216	216	217	
829•46				-	-	-	199	210	193	211	211	
847•64				-	-	-	168					
865•83				-	-	-	144					
930•19				-	-	-	368	-	433	-	429	-
962•86				-	-	-	-	90	-	102	-	94
1187•65				-	-	-	209	218	210	218	207	
	STA	PHI=	22•5	67•5	112•5	157•5						
1323•83		DEC=	-	3	3	3		3				
			-	551	-	566	-	573	-	566		

SID 62 929

APPENDIX A

TWT 77 BLOW 11

CONFIG C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA	401	BN	1559	180	225	270	280	290	315
STA	PHI =	00	45	90	135	180	225	270	315
	DEC =	3	3	3	3	3	3	3	3
371•46		1235		814		908			
378•55		745		691	708	778	808		
398•00				509	594		683		
425•10				425	436	480	537	574	
443•82					318	369	437	445	423
459•10					68	65	122	190	201
472•37					383	-	621	-	
479•28					396	-	580	-	
500•00					516•37	-	615	-	
516•37								-	519
572•00					572•00	-	463	-	
756•73							463	-	
774•92							45	102	
793•10							90	142	
811•28							172	215	
829•46							163	255	
847•64							139	150	
865•83							111	208	
930•19							88		
962•86								404	
1187•65								-	167
									-
									470
									-
									486
									-
STA	PHI =	22•5		67•5	112•5	157•5			
	DEC =	3		3	3	3			
1323•83		-	543	-	582	-	562	-	595

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APPENDIX A

TWT 77 BLOW 11

CONFIG C2 S3 K I B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA	398	BN	1672	180	225	270	280	290	315
STA	PHI=	00	45	90	135	3	3	3	3
	DEC=	3	3	3	3	3	3	3	3
371•46	1221		805						
378•55	739	691	701	770					
398•00	512		577						
425•10	402	426	469	539					
443•82		325	359	399	451				
459•10		53	104	138	177	173			
472•37		378	430	515	102	1059	-		
479•28		-	381	419	508	-			
500•00		-	-	-	-	-			
516•37		-	434	-	447	-			
572•00		-	-	-	-	-			
756•73		18	14	132	234	269			
774•92		54	61	208	303	359			
793•10			98	250	339	387			
811•28			123	257	302	353			
829•46		108	133	239	263	305			
847•64		92							
865•83		61							
930•19		-	180	-	361	-	541	-	544
962•86			-	-	82	-	157	-	497
1187•65			156		182	225	257	256	

STA PHI= 22.5 67.5 112.5 157.5
 DEC= 3 3 3 3
 1323.83 - 552 - 579 - 556 - 601

SID 62 929

APPENDIX A

TWT 77 BLOW 12

CONFIG E35 T16 C2 S3 K 1 B

TUNNEL CONDITIONS

TIME	ALPH	BN	HO	PO	M	Q	TTO	RN	V
DEC 1	2	810	3959	22953	1	3	1	3	1
95					918	13539	5356	8287	9634
1 30		917	3958	22867	921	13581	5351	8306	9657
1 69	406	1032	3930	22627	924	13529	5338	8284	9673
207	400	1147	3865	22347	920	13250	5321	8169	9623

TWT 77 BLOW 12

CONFIG E35 T16 C2 S3 K I B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA	STA	PHI =	00	45	90	135	180	225	270	280	290	315
		DEC =	3	3	3	3	3	3	3	3	3	3
371•46			106									
378•55			114			109						
398•00				81		102	91					
425•10			282			271						
443•82			474	461	458	435						
459•10				430	431	435	426					
472•37			136	158	158	162						
479•28			- 1164	- 1195	- 1176	- 1189	- 1184	- 1158				
500•00			- 973	- 974	- 978	- 971	- 986					
516•37			- 30	- 17	- 14	- 12	- 22					
572•00			- 323	302	299	298	300					
756•73			502	395	398	397	397					
774•92				387	399	400	405					
793•10				301	312	307	308					
811•28			303	249	238	270	244					
829•46			211									
847•64			145									
865•83												
930•19			- 609	- 589	- 615	- 630	- 625					
962•86				- 636	- 642	- 631	- 628					
1187•65			237	247	237	251	235					
	STA	PHI =	22•5	67•5	112•5	157•5						
	S 23•83	DEC =	- 548	- 558	- 561	- 550						

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APPENDIX A

TWT 77 BLOW

12

CONFIG E35 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA

BN 917

STA	PHI =	00	45	90	135	180	225	270	280	290	315
	DEC =	3	3	3	3	3	3	3	3	3	3
371•46		125									
378•55		118									
398•00			104								
425•10		287									
443•82		443									
459•10			435								
472•37		126									
479•28		-	1186	-							
500•00		-	967	-	966	-					
516•37											
572•00		-	34	-	25	-	34	-	26	-	26
756•73		324		298		298		301		298	
774•92		501		393		393		397		394	
793•10											
811•28											
829•46		300		229		229		238		252	
847•64											
865•83		140									
930•19		-	609	-	603	-	617	-	612	-	611
962•86			-		627	-	636	-	628	-	624
1187•65		241		245		235		247		234	

STA PHI = 22•5 67•5 112•5 157•5

DEC = 3 3 3 3 - 541 - 562 - 562 - 548

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APPENDIX A

TWT 77 BLOW 12

CONFIG E35 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA	406	BN	1032	STA	PHI =	00	45	90	135	180	225	270	280	290	315
				DEC =	3	3	3	3	3	3	3	3	3	3	3
371.46		93			111		95		57		49				
378.55					106		63		57		127				
398.00					200		353				793				
425.10					199	279	548	731							
443.82					267	484	559	810							
459.10					119	72	187	230							
472.37					141	-	-	-							
479.28					867	-	964	-	1049	-	1041	-	1035	-	1165
500.00															
516.37															
572.00															
756.73															
774.92															
793.10															
811.28															
829.46															
847.64															
865.83															
930.19															
962.86															
1187.65															

STA PHI = 22.5 67.5 112.5 157.5
 DEC = - 3 3 3 3 3 3 3

SID 62 929
 APPENDIX A

TWT 77 BELOW 12

CONFIG E35 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (ΔP)/Q

ALPHA 400 BN 8N 1147

THE JOURNAL OF CLIMATE

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378.55 111
80 111
49

398.00 **108** **62** **42** **118**

459.10	264	473	551	571
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479-28
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£4/
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500.00 - 873 = 969 - 1056 = 1044 = 1049 = 1175

9
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4
1
8
1
4
9
9
9
9

756.73 251 280 294 319 333

THE JOURNAL OF CLIMATE

811-28 250 307 354 382

829.46 **829.46**

865-83 **79**

930	19	-	604	-	655	-	628	-	605	-	572
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31A PAGE 6103 11205 15705

DEC = 3 3 3 3 3 3
323.83 - 521 = 565 - 568 = 585

SID .62 929
APPENDIX A

TWT 7.7 BLOW 13

CONFIG E35 T16 C2 S3 K I B

TUNNEL CONDITIONS

TIME	ALPH	BN	HO	PO	M	Q	TTO	RN	V
DEC 1	2				1	3	1	3	1
55 -	408	802	3977	23166	914	13538	5409	8206	9643
84 -	204	890	3965	23032	916	13534	5411	8186	9667
111	1001	972	3965	22650	931	13751	5404	8246	9796
138	1483	1053	3956	22752	925	13635	5396	8227	9735

TWT 77 BLOW 13

CONFIG E35 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA - 408 BN 802

STA PHI = 00 45 90 135 180 225 270 280 290 315

DEC = 3 3 3 3 3 3 3 3 3 3

371.46 85 20 55 56 94 140 111

378.55 802 3 382 187

398.00 760 735 543 277 186

425.10 760 532 462 257 115

443.82 472.37 218 200 148 25 121

459.10 479.28 - 1180 - 1263 - 1263 - 1239 - 1251 - 1238

500.00 - 1062 - 1084 - 1094 - 1006 - 912 - 1186

516.37 572.00 17 21 17 18 - 38

572.00 756.73 355 307 279 257 226

774.92 793.10 4.36 394 344 274

811.28 829.46 445 393 340 273

847.64 362 274 231 186 163

865.83 245 199

930.19 - 589 - 610 - 652 - 672 - 643

962.86 1187.65 262 257 232 224 200

STA PHI = 22.5 67.5 112.5 157.5

DEC = 3 3 3 3

1323.83 - 566 - 569 - 557 - 524

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APPENDIX A

TWT 77 BLOW 13

CONFIG E35 T16 C2 S3 K I B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA	- 204	BN	890	135	180	225	270	280	290	315
STA	PHI =	OC	45	90	3	3	3	3	3	3
DEC =		3	3	3	3	3	3	3	3	3
371•46		111		100						
378•55		80		78	88					
398•00			36		324					
425•10		484		483	330					
443•82		684		521	428	323				
459•10			226	197	141	82	4			
472•37			- 1217	- 1226	- 1218	- 1201	- 1197	- 1203		
479•28			- 1029	- 1033	- 1019	- 957	- 934			- 1150
500•00										
516•37										
572•00		- 6	3	4	-	5	-			
756•73		338	303	290	276	261				
774•92			418	397	361	330				
793•10				424	400	355	322			
811•28				321	309	273	266			
829•46		334	245	240	216	199				
847•64			235							
865•83			181							
930•19		- 601	-	620	-	632	-	643	-	635
962•86			-	627	-	639	-	436	-	297
1187•65			243	252	228	235	215			

STA	PHI =	22.5	67.5	112.5	157.5
1323•83	DEC =	3	3	3	3

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APPENDIX A

CONFIG E35 T16 C2 S3 K I B
TTWT 77 BLOW 13

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA 1001 BN 972

STA	PHI =	22.5	67.5	112.5	157.5
	DEC =	3	3	3	3
23.83	-	556 -	553 -	-	-

SID .62 929
APPENDIX

TWT 77 BLOW 13

CONFIG E35 T16 C2 S3 K I B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA	1483	BN	1053	135	180	225	270	280	290	315
STA	PHI =	00	45	90	135	180	225	270	280	315
	DEC =	3	3	3	3	3	3	3	3	3
371•46	-	347	-	393	-	1093				
378•55	-	79	-	359	581	844	1129			
398•00	-	165	-	460	-	906				
425•10	-	111	198	340	623	801				
443•82	-	114	239	506	653					
459•10	-	223	-	79	5	244	351			
472•37	-	678	-	425	-	669	-	1201	-	1165 - 1220
479•28	-	539	-	459	-	626	-	738	-	799 - 599
500•00	-	423	-	479	-	442	-	149	-	660 - 401 - 472
516•37	-	58	46	46	14	222	378			
572•00	-	82	90	134	371	529				
756•73	-	89	141	406	591					
774•92	-	40	54	328	509					
793•10	-	68	-	10	-	1	293	465		
811•28	-	33								
829•46	-	6								
847•64	-									
865•83	-									
930•19	-	311	-	739	-	731	-	526	-	405
962•86	-	128	-	306	-	327	-	92		
1187•65	-	123	112	156	156	324				
STA	PHI =	22•5	67•5	112•5	157•5					
	DEC =	3	3	3	3					
1323•83	-	523	-	546	-	575	-	608		

TWT 77 BLOW 14

CONFIG E40 T16 C2 S3 K 1 B

TUNNEL CONDITIONS

TIME	ALPH	BN	HO	PO	M	Q	TT0	RN	V
DEC 1	2				1	3	1	3	1
67 -	459	655	3958	23183	909	13398	5317	8333	9515
94 -	253	736	3938	23024	910	13355	5300	8332	9514
121	962	816	3973	22671	932	13796	5286	8509	9699
148	1470	899	3943	22703	.924	13575	5269	8453	9611

TWT 77 BLOW 14

CONFIG E40 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA - 459 BN 655

STA	PHI =	00	45	90	135	180	225	270	280	290	315
	DEC =	3	3	3	3	3	3	3	3	3	3
371.46	-	71	-	111	-	111	-	50	-	4	
378.55	-	104	-	41	28	-	96	-	84	-	
398.00		742		349	199	191	-	58		688	
425.10		790	714	473	423	191	-	2			
443.82		561	239	135	-	17	-	242			
459.10		221	-	1248	-	1248	-	1235	-	1176	- 1224
472.37	-	1207	-	1006	-	1025	-	1021	-	925	-
479.28	-	1006	-	1025	-	1021	-	541	-	541	- 1097
500.00		104	102	76	10	-	57				
516.37		346	303	260	225	188					
572.00		546	426	378	311	231					
756.73		432	375	299	236						
774.92		325	279	216	186						
793.10		373	284	220	156	123					
811.28		252									
829.46		203									
847.64		592	-	613	-	655	-	677	-	611	
865.83		-	-	-	-	-	-	-	-	134	
930.19		962.86		595	-	443	-	226	-	184	
1187.65		261	260	229	213						

STA PHI = 22.5 67.5 112.5 157.5

STA PHI = 22.5 67.5 112.5 157.5
DEC = 3 3 3 3
1323.83 - 558 - 566 - 555 - 530

SID 62 929
APPENDIX A

TWT 77 BLOW 14

CONFIG E40 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA - 253 BN 736

STA	PHI =	00	45	90	135	180	225	270	280	290	315
	DEC =	3	3	3	3	3	3	3	3	3	3
371.46	-	76									
378.55	-	106	-	99	-						
398.00			66	-	29	-	58	-	1		
425.10		480				269				93	
443.82		653	580			420	212	132			577
459.10			514	399							
472.37		189	210		144		39	-	144		
479.28	-	1204	-	1207	-	1200	-	1186	-	1163	-
500.00	-	941	-	950	-	917	-	853	-	653	
516.37											- 1043
572.00		92	92		66		23	-	23		
756.73		329	296		273		251		220		
774.92		552	416		380		336		276		
793.10			421	381			335		274		
811.28			329	277			254		233		
829.46		336	247	234			219		174		
847.64			233								
865.83		170									
930.19	-	594	-	609	-	641	-	656	-	636	
962.86				-	613	-	481	-	254	-	160
11187.65		247	252		226		229		199		
STA	PHI =	22.5	67.5	112.5	157.5						
1323.83	DEC =	3	3	3	3						
		- 556	- 556	- 567	- 536						

SID 62 929
APPENDIX A

TWT 77 BLOW 14

CONFIG E40 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA 962 BN 816

STA	PHI =	00	45	90	135	180	225	270	280	290	315
DEC=	3	3	3	3	3	3	3	3	3	3	3
371•46	- 126										
378•55	- 73	-	263								
398•00		- 155	- 145	-	152						
425•10		24	571								
443•82		54	166	513	701	789					
459•10			159	397	543	624					
472•37		- 257	6	134	253	328					
479•28		- 938	- 642	- 667	- 1206	- 1173	- 1205				
500•00		- 464	- 611	- 653	- 922	- 921					
516•37									- 687		
572•00		- 192	- 392	- 418	- 166	3			- 270		
756•73		149	142	189	292	362					
774•92		199	173	301	444	527					
793•10			171	300	466	551					
811•28			144	208	364	440					
829•46		110	111	144	298	393					
847•64		57									
865•83		3									
930•19		- 392	- 666	- 712	- 543	- 490					
962•86			- 238	-	541	- 452					
1187•65		167	184	213	262	303					
STA	PHI =	22.5	67.5	112.5	157.5						
DEC=	3	3	3	3	3	- 633					
1323•83	- 543	- 538	-	-	-						

SID 62 929

APPENDIX A

~~CONFIDENTIAL~~

TWT 77 BLOW 14

CONFIG E40 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/G

ALPHA 1470 BN 899

STA PHI = 00 45 90 135 180 225 270 280 290 315

DEC = 3 3 3 3 3 3 3 3 3 3

371.46 - 453 - 205 - 644 1078

378.55 - 184 348 548 1174

398.00 - 14 410 965

425.10 - 1 64 321 661 818

443.82 - 46 243 521 681

459.10 - 275 - 98 20 245 372

472.37 - 764 - 463 - 691 - 1216 - 1161 - 1219

479.28 - 524 - 493 - 649 - 777 - 783 - 662

500.00 - 575 - 132 - 66 - 675

516.37 - 318 - 451 - 420 - 132 - 375

572.00 - 101 85 53 240 388

756.73 - 158 125 171 391 - 406

774.92 - 119 170 427 601

793.10 - 61 75 335 507

811.28 - 75 13 16 281 463

829.46 - 31 - 13 - 399 - 760 - 733 - 534 - 400

847.64 - 327 - 327 - 344 - 106

865.83 - 127 125 119 164 326

STA PHI = 22.5 67.5 112.5 157.5

DEC = 3 3 3 3 3 3 3 3 3 3

1323.83 - 521 - 549 - 568 - 619

TWT 77 BLOW 15

CONFIG E40 T16 C2 S3 K 1 B

TUNNEL CONDITIONS

TIME	ALPH	BN	HO	PO	M	Q	TTO	RN	V
DEC 1	2	969	3946	22901	917	1	3	1	1
84 -	28	969	3946	22901	917	13484	5290	8394	9566
124 -	25	1090	3938	22897	915	13431	5269	8414	9532
162	382	1202	3936	22609	926	13583	5249	8489	9612
202	379	1322	3894	22438	924	13400	5227	8436	9567

15 BLOW 77 WTWT

CONFIG E40 T16 C2 S3 K I B

PRESSURE COEFFICIENTS (DELTAP)/Q

STA PHI = 22.5 67.5 112.5 157.5

APPENDIX

APPENDIX

2 929

TWT 77 BLOW 15

CONFIG E40 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA - 25 BN 1090

STA	PHI =	00	45	90	135	180	225	270	280	290	315
	DEC =	3	3	3	3	3	3	3	3	3	3
371.46	-	68	-	90	-	94	-	74	-	71	
378.55	-	-	96	-	76	-	74	-	65		
398.00		103			87					81	
425.10		319	306		281	245		220			305
443.82			364		366	312		299			
459.10											
472.37		185	152	136	105			107			
479.28	-	1125	-	1125	-	1107	-	1104	-	1109	
500.00	-	790	-	805	-	794	-	769	-	774	
											- 984
516.37		53	57	48	40						36
572.00		313	287	282	283						
756.73		485	382	377	368						
774.92											
793.10											
811.28		305	240	241	230						
829.46			196								
847.64											
865.83			154								
930.19	-	607	-	623	-	617	-	620	-	615	
962.86			-	604	-	602	-	565	-	524	
1187.65		234	246	232	246	246		230		228	
	STA PHI =	22.5	67.5	112.5	157.5						
	DEC =	3	3	3	3						
1323.83	-	548	-	565	-	567	-	543			

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TWT 77 BLOW 15

CONFIG E40 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA	382	BN	1202	STA	PHI=	00	45	90	135	180	225	270	280	290	315
DEC=	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
371.46	-	62													
378.55	-	41	-	66	-	92	-	92	-	77	-	116			
398.00												119			
425.10				87				285				626			
443.82				92	192	441	669					746			
459.10				200	409	560	601					177			
472.37				205	-	20	142	264	285						
479.28				1152	-	1166	-	1162	-	1176	-	1175	-	1176	
500.00				607	-	842	-	905	-	940	-	944			- 1030
516.37				607	-	842	-	905	-	940	-	944			- 418
572.00				61	4	47	38	31					40		31
756.73				220	250	284	318	328							
774.92				307	336	397	439	463							
793.10				335	393	446	479								
811.28				244	302	355	364								
829.46				177	182	258	273	308							
847.64				109											
865.83				67											
930.19				612	-	648	-	620	-	595	-	572			
962.86				405	-					610	-	575			
1187.65				207	231	246	267	264				264			
STA	PHI=	22.5	67.5	112.5	112.5	112.5	112.5	112.5	112.5	112.5	112.5	112.5	112.5	112.5	112.5
DEC=	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
1323.83	-	533	-	578	-	584	-	598	-	602	-	616	-	630	-

SID APPENDIX A
62 929

TWT 77 BLOW 15

CONF 16 E40 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA 379 BN 1322

STA	PHI =	00	45	90	135	180	225	270	280	290	315
DEC =	3	3	3	3	3	3	3	3	3	3	3
371.46	-	80	-	78	-	78	-	116			
378.55	-	41	-	39	-	26	-	106			
398.00						282		609			
425.10		101				428		671			
443.82		103				394		563			
459.10				199				609			
472.37	-	177	15	136	254	286					
479.28	-	1168	-	1167	-	1172	-	1184	-	1180	-
500.00	-	613	-	847	-	911	-	949	-	957	-
516.37											36
572.00	-	54	7	43	59	52					
756.73		220	254	280	313	327					
774.92		308	334	392	440	461					
793.10			332	396	437	468					
811.28			248	294	341	376					
829.46		186	182	211	276	317					
847.64			112								
865.83		66									
930.19	-	611	-	635	-	626	-	596	-	567	
962.86			-	358	-	358	-	609	-	578	
1187.65				211	230	244	263	262			

STA PHI = 22.5 67.5 112.5 157.5

SID 62 APPENDIX 929 A

1323.83 DEC = - 528 - 570 - 570 - 598

TWT 77 BLOW 17

CONFIG E40 T16 C2 S3 K I B

TUNNEL CONDITIONS

TIME	ALPH	BN	HO	PO	M	A	TTO	RN	V
DEC 1	2			1	3	1	1	3	1
76	192	844	3964	22801	925	13658	5309	8418	9654
114	194	958	3945	22712	924	13587	5298	8399	9639
155	597	1080	3938	22521	930	13643	5278	8444	9672
195	595	1200	3904	22411	927	13481	5259	8401	9626

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SID 62 929
APPENDIX A

TWT 77 BELOW 17

CONFESSIONS OF A YOUNG MAN

COEFFICIENTES DELTA P/100

PRESSURE COEFFICIENTS
ALPHA 192 BN 844

195

572.00	-	29	12	40	50	51
756.73	257	269	288	308	313	
774.92	365	352	391	419	430	
782.10		358	387	424	442	

1187.083 STA PHI = 22.5 67.5 112.5 157.5

$$1323.83 - 549 - 587 - 579 = 590$$

TWT 77 BLOW - 17

CONFIG E40 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA	194	BN	958	STA	PHI =	00	45	90	135	180	225	270	280	290	315
					DEC =	3	3	3	3	3	3	3	3	3	3
371.46		-	70												
378.55		-	56			-	92								
398.00		-	56			-	51	-	40	-	87				
425.10			87									219			
443.82			139									386			
459.10			236									508			
472.37		-	83									381			
479.28		-	1122	-	1132	-	1143	-	1148	-	1142	-	1141		
500.00		-	669	-	785	-	843	-	880	-	885				- 1001
516.37															
572.00		-	23		15		43		60		62				
756.73		-	253		262		287		305		313				
774.92			366		346		387		418		429				
793.10												353			
811.28												386			
829.46												415			
847.64												272			
865.83												292			
930.19		-	610	-	613	-	607	-	597	-	597				
962.86				-	500	-	638	-	617	-	600				
1187.65					224		235		241		261		250		
STA	PHI =	22.5	67.5	112.5	157.5										
1323.83	DEC =	3	3	3	3										
		- 542	- 582	- 575	- 580										

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TWT 77 BLOW 17

CONFIG E40 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

STA	PHI=	BN	1080	45	90	135	180	225	270	280	290	315
	DEC=			3	3	3	3	3	3	3	3	3
ALPHA	597			371•46	-	69	-	122	-	111		
				378•55	-	35	-	93	17 -	52	283	
				398•00	-			380		930		
				425•10	62			500	761	822		
				443•82	54	155						
				459•10	157	446		562	619			
				472•37	-	273 -	30	170	269	291		
				479•28	-	1175 -	1195 -	1203 -	1200 -	1188 -	1201	
				500•00	-	557 -	913 -	1012 -	988 -	972 -		- 1105
				516•37	-							- 475
				572•00	-	82 -	6 -	5 -	34 -	56 -		- 22
				756•73	207	239		266	317	346		
				774•92	281	326	389	455	492			
				793•10		309	387	463	514			
				811•28		222	284	356	404			
				829•46	155	157	213	293	340			
				847•64	92							
				865•83	50							
				930•19	-	615 -	654 -	621 -	587 -	539		
				962•86	-	363 -	-	-	584 -	531		
				1187•65	207	227	240	272	272	277		

STA PHI= 22.5 67.5 112.5 157.5
DEC= 3 3 3 3 3
1323.83 - 520 - 555 - 583 - 606

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TWT 77 BLOW 17

CONFIG E40 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q.

ALPHA	595	BN	1200	STA	PHI =	00	45	90	135	180	225	270	280	290	315
					DEC =	3	3	3	3	3	3	3	3	3	3
371.46	-	64													
378.55	-	36	-												
398.00			-	90											
425.10			52	-											
443.82			55	152											
459.10			161	161											
472.37			-	248	-	42									
479.28			-	1179	-	1201	-	1208	-	1206	-	1203	-	1204	
500.00			-	558	-	919	-	1017	-	988	-	974	-	974	- 1112
516.37															
572.00			-	80		3		11	-	8	-	19	-	470	29
756.73			208	236											
774.92			289	321											
793.10				311											
811.28				217											
829.46				155	155										
847.64				97											
865.83				39											
930.19			-	621	-	659	-	627	-	576	-	547			
962.86					-	346	-		-	588	-	537			
1187.65					208	225	241	269	277						
STA	PHI =	22.5	67.5	112.5	157.5										
1323.83	DEC =	3	3	3	3										
		- 521	- 558	- 581	- 607										

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TWT 77 BLOW 18

CONFIG E35 T16 C2 S3 K I B

TUNNEL CONDITIONS

TIME	ALPH	BN	HO	PO	M	Q	TTO	RN	V
DEC 1	2		1	3	1	1	3	1	1
75	201	906	3955	22782	924	13614	5314	8387	9649
113	203	1021	3947	22746	924	13580	5300	8396	9632
153	608	1141	3926	22530	927	13559	5285	8394	9651
192	604	1257	3909	22429	927	13502	5264	8401	9634

TWT 77 BLOW 18

CONFIG E35 T16 C2 S3 K I B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA 201 BN 906

STA	PHI =	00	45	90	135	180	225	270	280	290	315
DEC =	3	3	3	3	3	3	3	3	3	3	3
371•46	110										
378•55	125										
398•00		113	91	72	80						
425•10	207		304								
443•82	288	332	476	623	453						
459•10		335	457	522	553						
472•37	22	100	159	220	231						
479•28	-	1164 - 1180	- 1190	- 1203	- 1198 - 1201						
500•00	-	902 - 937	- 995	- 1006	- 1014						
516•37											
572•00	-	71 - 52	- 56	- 79	- 91						
756•73	288	285	302	321	326						
774•92	410	374	409	430	445						
793•10		375	406	443	453						
811•28		272	321	344	343						
829•46	238	220	251	274	288						
847•64	176										
865•83	101										
930•19	-	603 - 625	- 612	- 607	- 599						
962•86		- 634 - 648	- 628	- 605							
1187•65	229	243	244	266	251						

STA PHI = 22•5 67•5 112•5 157•5
DEC = 3 3 3 3

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APPENDIX A
1323•83 - 532 - 585 - 580 - 581

TWT 77 BLOW 18

CONFIG E35 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA	203	BN	1021	135	180	225	270	280	290	290	315
STA	PHI=	00	45	90	113	123	101	77	70	88	86
	DEC=										
371•46											
378•55											
398•00											
425•10											
443•82											
459•10											
472•37											
479•28											
500•00											
516•37											
572•00											
756•73											
774•92											
793•10											
811•28											
829•46											
847•64											
865•83											
930•19											
962•86											
1187•65											

STA PHI= 22•5 67•5 112•5 157•5

1323•83	DEC=	3	3	3	3	3	3	3	3	3	3
		- 537 -	574 -	578 -	586						

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TWT 77 BLOW 18

CONFIG E35 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA 608

BN 1141

STA	PHI =	00	45	90	135	180	225	270	280	290	315
DEC =	3	3	3	3	3	3	3	3	3	3	3
371•46	81										
378•55	97										
398•00		64									
425•10	228		495								
443•82	198	248		602							
459•10		258		468							
472•37	- 152	27	164								
479•28	- 1240	- 1217	- 1245	- 1230							
500•00	- 874	- 1029	- 1109	- 1049	- 1021						
516•37											- 1226
572•00	- 101	- 83	- 161	- 322	- 350						
756•73	246	262	277	323	355						
774•92	328	350	402	465	498						
793•10		346	398	471	515						
811•28		239	286	367	422						
829•46	174	186	232	290	345						
847•64	118										
865•83	55										
930•19	- 638	- 654	- 633	- 581	- 541						
962•86		- 431	-	- 589	- 535						
1187•65	220	229	240	270	277						

STA
DEC = 3 3 3 3 3
1323.83 - 515 - 559 - 593 - 607

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APPENDIX A

TWT 77 BLOW 18

CONEIG E35 T16 C2 S3 K 1 B

BRESSUIRE COFFEE CLIENTS (DETAILED)

1257 BN

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SID 62 929
APPENDIX

TWT 77 BLOW 19

CONFIG E35 T16 C2 S3 K I B

TUNNEL CONDITIONS

	TIME	ALPH	BN	HO	PO	M	Q	TTO	RN	V
DEC 1	2	1023	3800	22660	1	3	1	1	3	1
78	14	1144	3803	22655	892	12623	5326	7927	9373	
118	17	1263	3790	22424	893	12646	5319	7950	9375	
158	423	1382	3778	22355	899	12699	5307	7970	9423	
197	420				899	12654	5292	7973	9408	

TWT 77 BLOW 19

CONFIG E35 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA 14 BN 1023

STA	PHI=	00	45	90	135	180	225	270	280	290	315
DEC=	3	3	3	3	3	3	3	3	3	3	3
371.46	114										
378.55	93										
398.00	81										
425.10	258										
443.82	437	427									
459.10	401	418									
472.37	90	111	109								
479.28	- 1265	- 1282	- 1286								
500.00	- 1046	- 1048	- 1052								
516.37	67	71	74								
572.00	288	272	271								
756.73	462	365	367								
774.92	365	370	374								
793.10	282	283	290								
811.28	254	218	226								
829.46	176										
847.64	118										
865.83	- 648	- 682	- 668								
930.19	- 183	- 196	- 198								
962.86	214	226	215								
1187.65											

STA PHI= 22.5 67.5 112.5 157.5

STA	PHI=	00	45	90	135	180	225	270	280	290	315
DEC=	3	3	3	3	3	3	3	3	3	3	3
1323.83	- 507	- 526	- 527	- 520							

SID 62 929
APPENDIX A

TWT 77 BLOW 19

CONFIG E35 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA 17 BN 1144

STA	PHI =	00	45	90	135	180	225	270	280	290	315
	DEC =	3	109	3	3	3	3	3	3	3	3
371.46		109	101			104					
378.55		101					100				
398.00				73	73	74	82				
425.10		258				260		270			
443.82		430.	438		444	449	437				
459.10			405		422	420	417				
472.37		88	127		116	136	124				
479.28		- 1274	- 1279	-	1282	- 1278	- 1276	- 1278			
500.00		- 1040	- 1044	-	1054	- 1048	- 1058				
516.37									- 519		
572.00		63	69		64	72	72				
756.73		288	265		267	274	269				
774.92		468	366		368	366	364				
793.10			353		366	372	373				
811.28			276		276	283	273				
829.46		264	212		206	230	213				
847.64		169									
865.83		115									
930.19		- 660	- 652	-	663	- 678	- 663				
962.86		-	187	-	198	- 202	- 191				
1187.65		211	225		212	229	210				
									20		

STA PHI = 22.5 67.5 112.5 157.5

DEC = - 3 - 3 - 3 - 3 - 3

SID 62 929
APPENDIX A

TWT 77 BLOW 19

CONFIG E35 T16 C2 S3 K 1 B

BIBLIOTECAS Y SERVICIOS DE INVESTIGACIÓN (BIBS) / COEFFICIENTES (DELTA P)/Q

ALPHA 423 BN 1263 **PHI** 00 45 90 135 180 225 270 280 290 315

STA	PHI =	67.5	112.5	157.5	3
DEC=	22.5				
371.46	81				
378.55	89	58	49	27	116
398.00		87			31
425.10	183	361			807
443.82	187	537	703	751	256
459.10	246	446	525	541	
472.37	- 148	135	181	225	
479.28	- 1292 - 930	- 1280 - 1043	- 1303 - 1125	- 1306 - 1105	- 667 - 1307
500.00					
516.37	44				
572.00	- 22	38	58	93	97
756.73	- 223	238	262	291	306
774.92	314	323	376	419	440
793.10	319	373	435	460	
811.28	220	265	318	352	
829.46	170	180	211	265	288
847.64	93				
865.83	38				
930.19	- 663	- 683	- 674	- 644	- 610
962.86	-	- 181	- 272	- 324	- 329
1187.65	193	211	220	247	243
DEC=	3	3	3	3	3
	- 499	-			
	532	- 530	-		
					568
	1222	93			

SID 62 929

TWT 77 BLOW 19

CONFIG E35 T16 C2 S3 K I B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA 420 BN 1382

STA	PHI =	00	45	90	135	180	225	270	280	290	315
	DEC =	3	3	3	3	3	3	3	3	3	3
371•46		67									
378•55		102	91	45	62						
398•00						346	25				
425•10		184				539	706				
443•82		179	262			451	520				
459•10			243			146	200				
472•37		145									
479•28		- 1297	- 1279	- 1303	- 1306	- 1298	- 1309				
500•00		- 923	- 1041	- 1121	- 1109	- 1099					
516•37								- 707			
572•00		- 22	39	61	91	95		- 281			
756•73		224	237	260	291	305					
774•92		310	326	375	416	441					
793•10			318	376	427	457					
811•28			230	271	319	343					
829•46		174	171	192	254	289					
847•64		99									
865•83		49									
930•19		- 672	- 692	- 675	- 652	- 619					
962•86			- 190	- 280	- 337	- 346					
1187•65		199	208	222	242	241					
STA	PHI =	22•5	67•5	112•5	157•5						
1323•83	DEC =	3	3	3	3	3					
		- 501	- 533	- 531	- 571						

SID 62 929

APPENDIX A

TWT 77 BLOW 20 2ND REDUCTION

CONFIG E35 T16 C2 S3 K 1 B

TUNNEL CONDITIONS

TIME	ALPH	BN	HO	PO	M	Q	TTO	RN	V
DEC 1	2			1	3	1	1	3	1
66 -	402	594	3800	22851	884	12510	5377	7803	9347
~ 94 -	195	680	3799	22761	888	12559	5372	7823	9375
123	1012	767	3792	22387	901	12732	5363	7870	9490
153	1473	855	3783	22477	895	12615	5351	7854	9426

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SID 62 929

APPENDIX A

TWT 77 BLOW 20 2ND RED.

CONFIG E35 T16 C2 S3 K I B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA = 402 BN 594

STA	PHI =	00	45	90	135	180	225	270	280	290	290	315
371•46	DEC =	3	3	3	3	3	3	3	3	3	3	3
378•55		53										
398•00		20										
425•10			28									
443•82				780								
459•10					734							
472•37						692						
479•28							537					
500•00								248				
516•37									167			
572•00										81		
756•73											113	
774•92												173
793•10												689
811•28												
829•46												
847•64												
865•83												
930•19												
962•86												
1187•65												
STA	PHI =	22•5	67•5	112•5	157•5							
1323•83	DEC =	3	3	3	3	3	3	3	3	3	3	3
		- 525 -	- 535 -	- 540 -	- 509							

SID 62 929
APPENDIX A

TWT 77 BLOW 20 2ND RED.

CONFIG E35 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA 1012 BN 767

STA PHI= 00 45 90 135 180 225 270 280 290 290 315

DEC= 3 3 3 3 3 3 3 3 3 3 3

371•46 - 14 51 - 167 30 394 189 1167 337

378•55 51 - 167 198 578 450 629 718 855 274

398•00 30 394 189 1167

425•10 198 578

443•82 171 287 450 629 718

459•10 203 323 479 567

472•37 - 227 - 20 61 203 265

479•28 - 864 - 483 - 665 - 1312 - 1276 - 1312

500•00 - 554 - 521 - 644 - 845 - 1009 - 594

516•37 - 295 - 430 - 441 - 136 57 - 678

572•00 109 113 151 258 335 - 360 - 449

756•73 144 143 267 408 495

774•92 144 143 267 408 495

793•10 156 272 434 531

811•28 105 173 336 432

829•46 85 64 116 270 381

847•64 46

865•83 6

930•19 - 288 - 711 - 715 - 600 - 512

962•86 - 172 - 358 - 300 - 177

1187•65 142 157 181 228 276

83

STA PHI= 22.5 67.5 112.5 157.5

DEC= 3 3 3 3 3 3

1323•83 - 537 - 521 - 615 - 606

SID 62 929

APPENDIX A

TWT 77 BLOW 20 2ND RED.

CONF16 E35 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA 14.73 BN 855

STA PHI= 00 45 90 135 180 225 270 280 290 315

	DEC=	3	3	3	3	3	3	3	3
371•46	- 360	84	-	369				1091	
378•55		342	572	832			1097		
398•00	144		429				889		
425•10	83	166	313	604			787		
443•82		78	214	477			625		
459•10	- 267	- 110	- 19	205			321		
472•37	-								
479•28	- 696	- 459	- 717	- 1254	- 1257	- 1316			
500•00	- 544	- 500	- 673	- 794	- 856				
516•37							- 644		
572•00	- 364	- 457	- 392	-	124	50			
756•73	70	67	17	214		372			
774•92	106	117	130	358		534			
793•10		99	131	389		581			
811•28		39	39	304		487			
829•46	68	- 3	5	256		439			
847•64	21								
865•83	- 10								
930•19	- 336	- 787	- 779	- 569	- 436				
962•86		- 268	- 383	- 173	- 11				
1187•65	121	108	89	142	309				

STA PHI= 22.5 67.5 112.5 157.5

	DEC=	3	3	3	3
1323•83	- 514	- 546	- 587	- 572	

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APPENDIX A

TWT 77 BLOW 21

CONFIG E35 T16 C2 S3 K 1 B

TUNNEL CONDITIONS

	TIME	ALPH	BN	HO	PO	M	Q	TTO	RN	V
DEC 1	2			1	3	1	1	3	1	
\ 79	216	833	3789	22536	895	12625	5351	7865	9418	
\ 117	205	948	3793	22531	896	12652	5344	7889	9422	
? 156	609	1065	3782	22345	901	12690	5334	7904	9459	
\ 195	608	1181	3769	22275	900	12638	5319	7904	9441	

TWT 77 BLOW 21

CONFIG E35 T16 C2 S3 K I B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA	216	BN	833									
STA	PHI=	00	45	90	135	180	225	270	280	290	315	
	DEC=	3	3	3	3	3	3	3	3	3	3	
371•46		103										
378•55		112			72							
398•00		190	100	66	49	72						
425•10		278	326	479	599	654						
443•82			307	428	484	509						
459•10			- 28	24	126	187	185					
472•37		- 1256	- 1277	- 1290	- 1301	- 1294	- 1299					
479•28		- 1007	- 1031	- 1077	- 1087	- 1096						
500•00												- 1226
516•37		23	51	81	89	97						
572•00		258	254	270	286	291						
756•73		393	340	375	400	411						
774•92			334	377	416	414						
793•10			256	280	301	313						
811•28		216	187	197	248	252						
829•46			133									
847•64												
865•83		79										
930•19		- 664	- 662	- 674	- 663	- 639						
962•86			- 184	- 236	- 257	- 256						
1187•65		199	214	215	237	226						
STA	PHI=	22•5	67•5	112•5	157•5							
1323•83	DEC=	3	3	3	3	3						
		- 503	- 545	- 541	- 546							

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APPENDIX A

TWT 77 BLOW 21

CONFIG E35 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA 205 BN 948

STA	PHI =	00	45	90	135	180	225	270	280	290	315
371•46	DEC=	95	3	3	3	3	3	3	3	3	3
378•55		101			91						
398•00			84	67	44	67					
425•10			181		300						
443•82		256	329	469	602	678					
459•10			317	428	497	533					
472•37		- 19	44	110	177	185					
479•28		- 1266	- 1271	- 1287	- 1297	- 1293	- 1295				
500•00		- 975	- 1024	- 1077	- 1080	- 1100					
516•37							-				
572•00		24	52	73	92	95					
756•73		256	254	271	287	293					
774•92		396	342	376	401	413					
793•10			345	375	409	419					
811•28			243	278	295	326					
829•46		224	214	224	218	260					
847•64		141									
865•83		85									
930•19		- 676	- 682	- 661	- 663	- 650					
962•86			- 188	- 238	- 262	- 267					
1187•65		206	215	213	241	227					
STA	PHI =	22•5	67•5	112•5	157•5						
1323•83	DEC=	3	3	3	3	3					
		- 502	- 549	- 540	- 547						

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APPENDIX A

TWT 77 BLOW 21

CONC E35 T16 C2 S3 K 1 B

PROCEDURE COEFFICIENTS (DELTA P)/Q

1

2011- 22.5 67.5 112.5 157.5

1323

$$DEC = \frac{3}{2^0} + \frac{3}{2^1} + \frac{3}{2^2} = \frac{527}{576} = .900$$

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APPENDIX A

TWT 77 BLOW 21

CONFIG E35 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA	PHI =	BN	1181	90	135	180	225	270	280	290	315
STA	DEC =	3	3	3	3	3	3	3	3	3	3
371•46	55	35	-	-	-	-	-	-	-	-	-
378•55	62	39	19	31	31	31	31	31	31	31	31
398•00	203	487	487	487	487	487	487	487	487	487	487
425•10	171	240	588	687	687	687	687	687	687	687	687
443•82	459•10	225	448	499	499	499	499	499	499	499	499
472•37	-	223	3	143	143	143	143	143	143	143	143
479•28	-	1339	-	1302	-	1333	-	1317	-	1297	-
500•00	-	941	-	1108	-	1185	-	1119	-	1098	-
516•37	-	-	-	-	-	-	-	-	-	-	-
572•00	-	47	-	21	-	11	78	95	-	631	-
756•73	207	217	242	290	318	318	318	318	318	318	318
774•92	284	300	364	428	464	464	464	464	464	464	464
793•10	-	292	364	445	479	479	479	479	479	479	479
811•28	-	187	252	330	376	376	376	376	376	376	376
829•46	145	137	183	263	316	316	316	316	316	316	316
847•64	79	28	-	-	-	-	-	-	-	-	-
865•83	-	-	-	-	-	-	-	-	-	-	-
930•19	-	591	-	720	-	689	-	629	-	592	-
962•86	-	218	-	315	-	397	-	360	-	360	-
1187•65	179	200	216	245	245	245	245	245	245	245	245
STA	PHI =	22•5	67•5	112•5	157•5						
DEC =	3	3	3	3	3						
1323•83	-	508	-	539	-	535	-	575	-	575	-

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A. PENDIX A

TWT 77 BLOW 22

2ND REDUCTION

CONFIG E40 T16 C2 S3 K 1 E

TUNNEL CONDITIONS

TIME	ALPH	BN	HO	PU	M	Q	TTO	RN	V
DEC 1	2			1	3	1	1	3	1
74	13	696	3801	22634	893	12647	5363	7862	9418
114	13	815	3795	22634	892	12605	5363	7845	9405
153	419	932	3794	22414	901	12727	5353	7891	9475
193	416	1052	3776	22313	900	12665	5341	7877	9463

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APPENDIX A

TWT 77 BLOW 22 2ND RED

CONFIG E40 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA 13 BN 696

STA	PHI =	00	45	90	135	180	225	270	280	290	315
	DEC =	3	3	3	3	3	3	3	3	3	3
371•46	- 71	-	96	-	96	-	89				
378•55	-	96	-	101	-	75	-	109	-	81	
398•00						92				75	
425•10	76					276	287	299	287		242
443•82	262					333	341	357	331		
459•10						66	111	128	128	117	
472•37						- 1176	- 1195	- 1202	- 1191	- 1187	- 1183
479•28						- 824	- 846	- 853	- 847	- 859	
500•00											- 1015
516•37											
572•00						28	32	32	35	38	
756•73						279	261	263	264	261	
774•92						452	354	356	356	358	
793•10							355	358	369	363	
811•28							277	281	283	281	
829•46							259	220	206	213	229
847•64								164			
865•83								110			
930•19								- 642	- 661	- 655	- 676
962•86								-	- 189	- 203	- 207
1187•65									-	213	228

STA	PHI =	22.5	67.5	112.5	157.5
	DEC =	3	3	3	3
1323•83	- 513	- 538	- 535	- 523	

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APPENDIX A

TWT 77 BLOW 22 2ND RED

CONCLUDING REMARKS 18

ADDRESS IDE COEFFICIENTS (DELTA P)/Q

ALPHA	13	BN	815	3	3	3	3	3	3	3	3	
STA	PHI =	00	45	90	135	180	225	270	280	290	315	
371•46	DEC =	- 71	- 73	- 100	- 84	- 113	- 82					
378•55												
398•00												
425•10		76			87							
443•82		259	259		279	290	288					
459•10												
472•37		82	113	111	102	102	122					
479•28		- 1192	- 1195	- 1196	- 1192	- 1191	- 1193					
500•00		- 830	- 845	- 852	- 847	- 856						
516•37												
572•00		25	29	24	30	39						
756•73		281	264	262	262	262	262	262				
774•92		451	353	356	355	355	355	355				
793•10			351	359	356	360	360					
811•28			276	273	256	256	288					
829•46		274	210	223	215	215	212					
847•64		175										
865•83		107										
930•19		- 655	- 668	- 665	- 673	- 667						
962•86		-	- 195	- 205	- 208	- 203						
1187•65		214	224	213	228	212						

APPENDIX A

TWT 77 BLOW 22 2ND RED

CONFIG E40 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA 419 BN 932

STA	PHI =	00	45	90	135	180	225	270	280	290	315
371•46	DEC=	- 67	3	3	3	3	3	3	3	3	3
378•55	-	51	-	111	-	-	-	-	-	-	124
398•00	-	63	-	26	-	76	-	76	-	147	
425•10	71			317							697
443•82	85	168	450	691	768						138
459•10		156	403	577	591						
472•37	-	229	-	55	126	230	254				
479•28	-	1171	-	1251	-	1261	-	1271	-	1263	-
500•00	-	508	-	892	-	1000	-	1024	-	1020	-
516•37											991
572•00	-	60	5	63	102	113					- 663
756•73		195	225	253	289	306					
774•92	269	307	369	417	441						
793•10		305	371	418	459						
811•28		209	265	314	352						
829•46	153	173	197	246	293						
847•64		82									
865•83		34									
930•19	-	575	-	680	-	674	-	635	-	615	
962•86			-	164	-	289	-	402	-	439	
1187•65		187	205	223	244	245					

STA PHI = 22.5 67.5 112.5 157.5

STA	PHI =	00	45	90	135	180	225	270	280	290	315
1323•83	DEC=	- 504	- 547	-	526	-	575				

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APPENDIX A

TTWT 77 BLOW 22 2ND RED

CONFIG E40 T16 C2 S3 K 1 B

CONFIG E40 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA_P)/Q

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TWT 77 BLOW 23

CONFIG E40 T16 C2 S3 K1 B

TUNNEL CONDITIONS

TIME	ALPH	BN	HO	PO	M	Q	TTO	RN	V
DEC 1	2			1	3	1	1	3	1
60 -	382	641	3814	22873	887	12590	5377	7839	9369
88 -	177	725	3807	22800	888	12590	5387	7811	9391
119	1031	816	3804	22439	902	12787	5387	7854	9519
147	1500	901	3800	22556	896	12685	5380	7837	9459

TWT 77 BLOW 23

CONFIG E40 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA	1031	BN	816					
STA	PHI =	00	45	90	135	180	225	270
DEC =	3	3	3	3	3	3	3	3
371•46	- 166	-	300	-	300	-	300	182
378•55	- 78	-	76	119	-	227	1144	
398•00	13	-	543	543	-	932		
425•10	29	145	457	659	659	757		
443•82	115	341	507	507	507	599		
459•10	-	62	76	229	229	292		
472•37	- 304	-	612	685	1296	1262	- 1299	
479•28	- 906	-	619	- 673	- 856	- 966	- 670	
500•00	- 463	-	619	-	-	-	-	
516•37	-	153	- 354	-	376	- 97	73	
572•00	-	137	130	165	268	268	345	
756•73	198	169	283	415	415	503		
774•92								
793•10								
811•28								
829•46								
847•64								
865•83	- 9	-	736	-	708	- 592	- 517	
930•19	- 354	-	223	-	422	- 359	- 213	
962•86	-	147	156	180	180	226	279	
1187•65								
STA	PHI =	22•5	67•5	112•5	157•5			
	DEC =	3	3	3	3	3	3	
1323•83	-	530	- 527	-	620	-	607	

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APPENDIX A

TWT 77 BLOW 24

CONFIG E40 T16 C2 S3 K I B

TUNNEL CONDITIONS

TIME	ALPH	BN	HO	PO	M	Q	TTO	RN	V
DEC 1	2			1	3	1	1	3	1
\ 78	216	729	3807	22575	897	12722	5404	7810	9489
\ 117	216	846	3804	22543	898	12720	5404	7805	9494
\ 157	623	964	3794	22352	903	12770	5399	7814	9540
\ 196	619	1083	3772	22274	901	12662	5382	7793	9505

TWT 77 BLOW 24

CONF16 E40 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA 216 BN 729

STA PHI = 00 45 90

DEC= 3 3 3 3 3 3 3 3 3 3 3 3

65	-	90	-	126
-	65	-	38	-
82		228	88	28
134	211	392	536	575
108	-	220	382	494
196	-	3	111	204
647	-	1222	-	1235
24	12	927	-	1242
		-	971	-
			970	1235
			-	1241
				-
				1086
				-
				389
				-
				54
				31
				-
				172

774.92	338	325	366	394	408
793.10		325	370	405	410
811.28		229	280	292	334
829.46	200	193	193	229	271
847.64	112				
865.83	58				
930.19	-	649	-	660	-
962.86		-	168	-	661
1187.65	192			249	-
				296	-
				217	311
				239	229

$$\text{STAB} = \text{PHI} = 22.5 \quad 67.5 \quad 112.5 \quad 157.5$$

$$DEC = \frac{1323.83}{-514 - 558 - 542 - 551} = 3$$

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APPENDIX A

TWT 77 BLOW 24

CONFIG E40 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA	216	BN	846
STA	PHI=	00	45
	DEC=	3	3
371•46	-	91	101
378•55	-	55	- 129
398•00	-	61	- 42 - 92
425•10	72	245	31
443•82	121	214	405
459•10		382	575
472•37	-	228	530
479•28	-	371	480
500•00	-	109	100 196 211
516•37	-	1202	- 1223 - 1230 - 1237 - 1238 - 1239
572•00	-	638	- 853 - 924 - 966 - 968 - 1092
756•73	-	27	16 51 75 89
774•92	229	236	258 280 289
793•10		340	323 364 393 408
811•28			325 365 405 420
829•46			229 286 311 326
847•64			198 174 222 232 272
865•83			121 57
930•19	-	640	- 677 - 665 - 657 - 635
962•86			- 158 - 241 - 291 - 307
1187•65			191 214 217 243 230

STA PHI= 22.5 67.5 112.5 157.5

1323•83	DEC=	3	3	3
		- 511	- 563 - 547	- 547

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APPENDIX A

TWT 77 BLOW 24

CONFIG E40 T16 C2 S3 K I B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA 623 BN 964

STA PHI = 00 45 90 135 180 225 270 280 290 315

DEC= 3 3 3 3 3 3 3 3 3 3

371•46	-	81	-	147	-	86			
378•55	-	40	-	64	-	20	361		
398•00			57	391			926		
425•10			43	166	500	730	771		
443•82			142	409	532	589			
459•10			-	272	-	124	225	259	
472•37			-	1077	-	1284	-	1288	
479•28			-	914	-	1104	-	1030	
500•00			-	467	-				- 690
516•37			-	73	-	3	60	99	114
572•00			-						- 180
756•73			180	205	234	289	322		
774•92			246	292	359	427	468		
793•10				281	365	434	484		
811•28				198	254	342	387		
829•46			129	130	172	274	331		
847•64				71					
865•83									
930•19			-	523	-	695	-	618	- 577
962•86			-		-	206	-	484	- 463
1187•65				182	200	216	247	261	

STA PHI = 22•5 67•5 112•5 157•5

DEC= 3 3 3 3

1323•83 - 511 - 531 - 534 - 579

SID 62 929

APPENDIX A

TWT 77 BLOW 25

CONFIG E40 T16 C2 S3 K 1 B

TUNNEL CONDITIONS

TIME	ALPH	BN	HO	PO	M	Q	TTO	RN	V
DEC 1	2				1	3	1	3	1
82	24	785	3784	21113	952	13406	5413	7914	9993
121	24	903	3763	21088	948	13278	5413	7859	9957
160	430	1020	3752	20877	955	13321	5404	7869	10005
199	427	1135	3735	20784	955	13262	5394	7853	9996

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APPENDIX A

TWT 77 BLOW 25

CONFIG E40 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTAP)/Q

ALPHA	24	BN	903								
STA	PHI =	00	45	90	135	180	225	270	280	290	315
DEC=	3	3	3	3	3	3	3	3	3	3	3
371•46	-	53			55					70	
378•55	-	46	-	47	-	53	-	91	-	51	
398•00			92			123				133	
425•10		247	269		307		318			335	245
443•82			328	358		382		396			
459•10			142	159	157		183		183		
472•37				- 1019	- 1024	- 1029	- 1023	- 1021	- 1020		
479•28				- 685	- 699	- 719	- 720	- 728		- 894	
500•00											
516•37											
572•00				- 94	- 91	- 95	- 96	- 98		- 53	- 76
756•73			324	309	316		320			318	
774•92			476	394	406		415			410	
793•10				382	404		415				
811•28				327	326		338			332	
829•46				297	254		296			270	
847•64					227						
865•83					179						
930•19				- 534	- 551	- 559	- 561	- 561			
962•86					- 576	- 583	- 578	- 578		571	
1187•65					269	277	269	283		271	
STA	PHI =	22.5	67.5	112.5	157.5						
1323.83	DEC =	3	3	3	3					3	
		- 598	- 618	- 613	- 610						

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APPENDIX A

TWT 77 BLOW 25

CONEXIONES T16 C2 S3 K 1 B

ADDRESSIVE COEFFICIENTS (DELTA P)/Q

ALPHA	430	BN	1020
STA	PHI =	00	45
	DEC =	3	3
371•46	-	51	
378•55	-	19	-
398•00	-	58	66
425•10	100	206	11 - 48
443•82	97	449	719 806
459•10	201	435	609 654
472•37	- 175	3	177
479•28	- 1086	- 1092	- 1089 - 1102 - 1096 - 1098
500•00	- 567	- 791	- 859 - 889 - 882
516•37			- 383
572•00	- 164	- 152	- 401 - 414 - 381
756•73	241	284	318 351 369
774•92	307	359	429 477 502
793•10			
811•28			
829•46			
847•64			
865•83			
930•19	- 545	- 581	- 566 - 530 - 506
962•86	-	- 629	- 619 - 558 - 521
1187•65	239	263	279 300 302

SID 62 929
APPENDIX A

TWT 77 BLOW 25

CONFIG E40 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

STA	PHI =	00	45	90	135	180	225	270	280	290	315
ALPHA	DEC =	3	3	3	3	3	3	3	3	3	3
371.46	-	55	-	82	-	96					
378.55	-	27	-	37	12	-	59	141			
398.00		103		300			674				
425.10		100	208	439	704		812				
443.82		197	426	596		652					
459.10		33	195	298		311					
472.37	-	178									
479.28	-	1097	-	1092	-	1089	-	100	-	1097	-
500.00	-	575	-	784	-	856	-	879	-	883	-
516.37											
572.00	-	163	-	150	-	396	-	417	-	381	-
756.73		242	278	316	349		367				
774.92		312	355	427	477		500				
793.10			350	428	487		518				
811.28			271	329	387		416				
829.46			196	214	253	316	360				
847.64			135								
865.83			81								
930.19	-	558	-	580	-	561	-	535	-	505	
962.86						636	-	621	-	558	-
1187.65						243	262	277	295	297	
STA	PHI =	22.5	67.5	112.5	157.5						
1323.83	DEC =	3	3	3	3						
		-	574	-							

SID 62 929

APPENDIX

TWT 77 BLOW 26

CONFIG E40 T16 C2 S3 K I B

TUNNEL CONDITIONS

TIME	ALPH	BN	HO	PO	M	Q	TTO	RN	V
DEC 1	2			1	3	1	1	3	1
78	220	757	3776	20958	957	13434	5426	7883	10046
116	222	871	3767	20954	955	13383	5432	7851	10035
155	625	988	3752	20804	958	13365	5426	7837	10055
193	625	1102	3740	20698	959	13339	5413	7840	10056

TWT 77 BLOW 26

CONFIG E40 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

STA	PHI =	00	45	90	135	180	225	270	280	290	315
ALPHA	BN	757									
DEC =	3	3	3	3	3	3	3	3	3	3	3
371•46	-	41									
378•55	-	36	-								
398•00	-		22	-							
425•10	101			16	-						
443•82	151	232			64	-					
459•10		249	409			68	-				
472•37	-	52	88								
479•28	-	1029	-	1048	-						
500•00	-	602	-	715	-	1054	-				
516•37					177	272					
572•00	-	152	-	142	-	227	-				
756•73	277	291				375	-				
774•92	370					380	-				
793•10											
811•28											
829•46	249	257									
847•64											
865•83											
930•19											
962•86											
1187•65											
STA	PHI =	22•5	67•5	112•5	157•5						
DEC =	3	3	3	3	3						
1323•83	-	590	-	607	-	608	-	605	-	603	

SID 62

APPENDIX

TWT 77 BLOW 26

CONF1G E40 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

SID 62 923

TWT 77 BLOW 26

CONFIG E40 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA 625 BN 988

STA	PHI=	00	45	90	135	180	225	270	280	290	315
371•46	DEC=	3	3	3	3	3	3	3	3	3	3
378•55	-	48	-	-	87	-	-	86			
398.00	-	34	-	92	25	-	52	317			
425•10		81			377			954			
443•82		77	163	531	793	846					
459•10		171	488	601	645						
472•37	-	214	-	23	204	325	347				
479•28	-	1118	-	1118	-	1123	-	1119	-	1103	-
500•00	-	543	-	849	-	950	-	920	-	886	-
516•37											
572.00	-	172	-	162	-	510	-	411	-	345	-
756•73		239	269	303	357	384					
774•92		304	360	423	490	531					
793•10			347	421	504	553					
811•28			260	332	405	441					
829•46		188	195	266	344	380					
847•64		134									
865•83		82									
930•19			564	-	599	-	569	-	524	-	486
962•86				-	640	-	629	-	539	-	484
1187•65				241	259	274	300		311		
STA	PHI=	22.5	67.5	112.5	157.5						
STA	DEC=	3	3	3	3						
1323.83	-	560	-	████	-	████	-	████	-	████	-

SID 62 92
APPENDIX A

TWT 77 BLOW 26

CONELIG E40 T16 C2 S3 K 1 8

PRESSURE COEFFICIENTS ($\Delta T / P$)

PRESSURE COEFFICIENTS ($\Delta T / P$)^{1/2}

ALPHA	625	BN	1102
STA	PHI=	00	45
	DEC=	3	3
371•46	-	54	
378•55	-	31	- 105
398•00	-	87	21 - 47
425•10	78		374
443•82	77	186	535 798
459•10		178	479 612
472•37	- 230	8	211 308
479•28	- 1127	- 1112	- 1120 - 1117
500•00	- 536	- 846	- 948 - 914
516•37			- 887
572•00	- 165	- 148	- 508 - 414
756•73	- 235	269	300 354
774•92	300	356	419 489
793•10		354	420 500
811•28		241	309 397
829•46	193	197	266 330
847•64		129	
865•83		81	
930•19	- 570	- 596	- 569 - 517
962•86		- 633	- 623 - 539
1187•65	238	259	273 298
			308
			315

SID 62 929

APPENDIX A

TWT 77 BLOW 27

CONFIG E40 T16 C2 S3 K 1 B

TUNNEL CONDITIONS

TIME	ALPH	BN	HO	PO	M	Q	TTO	RN	V
DEC 1	2								
66 -	386	631	3773	21312	942	13225	5442	7807	9922
94 -	184	713	3774	21182	947	13304	5442	7825	9973
122	1022	798	3762	20784	961	13439	5442	7836	10097
151	1480	886	3756	20898	955	13340	5433	7824	10034

TWT 777 BLOW 27

CONFIG E40 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTAP)/Q

ALPHA = 386 BN 631

STA	PHI =	00	45	90	135	180	225	270	280	290	315

	DEC =	3	3	3	3	3	3	3	3	3	3
371•46	-	54	-	-	65	-	-	34			
378•55	-	91	-	-	22	-	47	-	21		
398•00	-	80	-	-	302	-	-	96			
425•10	626	-	-	-	436	193	97				
443•82	774	702	-	-	425	212	37				
459•10	-	589	-	-	-	-	-				
472•37	319	266	-	-	163	35	-	163			
479•28	-	1096	-	1142	-	1134	-	1132	-	1138	-
500•00	-	906	-	918	-	895	-	823	-	619	-
516•37	-	-	-	-	-	-	-	-	-	-	
572•00	-	327	-	207	-	46	-	48	-	95	-
756•73	377	332	-	299	-	265	-	223	-		
774•92	-	457	-	413	-	349	-	272	-		
793•10	-	470	-	417	-	351	-	284	-		
811•28	-	365	-	326	-	278	-	222	-		
829•46	395	295	-	255	198	176	-				
847•64	-	282	-	-	-	-	-				
865•83	-	234	-	-	-	-	-				
930•19	-	533	-	552	-	589	-	613	-	580	-
962•86	-	590	-	641	-	642	-	296	-		
1187•65	284	285	-	259	-	249	-	222	-		

STA PHI = 22•5 67•5 112•5 157•5

STA	PHI =	00	45	90	135	180	225	270	280	290	315

STA	PHI =	00	45	90	135	180	225	270	280	290	315

STA	PHI =	00	45	90	135	180	225	270	280	290	315

STA	PHI =	00	45	90	135	180	225	270	280	290	315

STA	PHI =	00	45	90	135	180	225	270	280	290	315

STA	PHI =	00	45	90	135	180	225	270	280	290	315

STA	PHI =	00	45	90	135	180	225	270	280	290	315

STA	PHI =	00	45	90	135	180	225	270	280	290	315

STA	PHI =	00	45	90	135	180	225	270	280	290	315

STA	PHI =	00	45	90	135	180	225	270	280	290	315

STA	PHI =	00	45	90	135	180	225	270	280	290	315

STA	PHI =	00	45	90	135	180	225	270	280	290	315

STA	PHI =	00	45	90	135	180	225	270	280	290	315

STA	PHI =	00	45	90	135	180	225	270	280	290	315

STA	PHI =	00	45	90	135	180	225	270	280	290	315

STA	PHI =	00	45	90	135	180	225	270	280	290	315

STA	PHI =	00	45	90	135	180	225	270	280	290	315

STA	PHI =	00	45	90	135	180	225	270	280	290	315

STA	PHI =	00	45	90	135	180	225	270	280	290	315

STA	PHI =	00	45	90	135	180	225	270	280	290	315

STA	PHI =	00	45	90	135	180	225	270	280	290	315

STA	PHI =	00	45	90	135	180	225	270	280	290	315

STA	PHI =	00	45	90	135	180	225	270	280	290	315

STA	PHI =	00	45	90	135	180	225	270	280	290	315

STA	PHI =	00	45	90	135	180	225	270	280	290	315

STA	PHI =	00	45	90	135	180	225	270	280	290	315

STA	PHI =	00	45	90	135	180	225	270	280	290	315

STA	PHI =	00	45	90	135	180	225	270	280	290	315

STA	PHI =	00	45	90	135	180	225	270	280	290	315

STA	PHI =	00	45	90	135	180	225	270	280	290	315

STA	PHI =	00	45	90	135	180	225	270	280	290	315

STA	PHI =	00	45	90	135	180	225	270	280	290	315

STA	PHI =	00	45	90	135	180	225	270	280	290	315

STA	PHI =	00	45	90	135	180	225	270	280	290	315

STA	PHI =	00	45	90	135	180	225	270	280	290	315

STA	PHI =	00	45	90	135	180	225	270	280	290	315

STA	PHI =	00	45	90	135	180	225	270	280	290	315

STA	PHI =	00	45	90	135	180	225	270	280	290	315

STA	PHI =	00	45	90	135	180	225	270	280	290	315

STA	PHI =	00	45	90	135	180	225	270	280	290	315

STA	PHI =	00	45	90	135	180	225	270	280	290	315

STA	PHI =	00	45	90	135	180	225	270	280	290	315

STA	PHI =	00	45	90	135	180	225	270	280	290	315

STA	PHI =	00	45	90	135	180	225	270	280	290	315

STA	PHI =	00	45	90	135	180	225	270	280	290	315

STA	PHI =	00	45	90	135	180	225	270	280	290	315

STA	PHI =	00	45	90	135	180	225	270	280	290	315

STA	PHI =	00	45	90	135	180	225	270	280	290	315

STA	PHI =	00	45	90	135	
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TWT 77 18 MO 27

CONIE 16 E40 T16 C2 S3 K 1 B

[SUBSCRIBE](#) COEFFICIENTS (DELTA P) / Q

BN 180 = 713

2011 22 15 80 135 180 225 270 280 290 315

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371•46 - 50

398-00 - 68 - 15 - 20 8

486

459.

479.28 = 1046 - 1048 = 1046 - 1059 = 1051 - 1050

516•37 = 389

756.073 358 328 309 288 264

114 • *72* *702* • *10* *440* *420* *379* *327*

847.64 266

930-19 - 533 - 549 - 558 - 583 - 575

232.0.0.5 281 283 263 261 240

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APPENDIX

4

TWT 77 BLOW

CONFIG E40 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA 1022 BN 798

STA	PHI =	00	45	90	135	180	225	270	280	290	315
	DEC =	3	3	3	3	3	3	3	3	3	3
371•46	-	129	-	258	-	258	-	238	-	132	
378•55	-	54	-	89	-	137	-	238	-	1133	
398•00	-	37	-	558	-	558	-	504	-	974	
425•10		65	163	160	160	160	160	707	799	146	
443•82		65	163	160	160	160	160	570	654		
459•10		228	16	170	170	170	170	298	360		
472•37	-	1007	-	1193	-	1172	-	1123	-	1086	-
479•28	-	538	-	1079	-	1042	-	901	-	832	
500•00	-	255	-	277	-	489	-	353	-	238	
516•37	-	160	199	208	208	208	208	319	319	391	
572•00	-	240	278	333	333	333	333	466	466	554	
756•73		272	348	491	491	491	491	590	590		
774•92		177	235	403	403	403	403	491	491		
793•10		136	111	162	162	162	162	330	330	437	
811•28		89	43	602	602	602	602	491	491		
829•46		204	200	227	227	227	227	273	273	325	
847•64		22•5	67•5	112•5	112•5	112•5	112•5	157•5	157•5		
865•83		531	-	618	-	618	-	500	-	408	
930•19	-	577	-	635	-	635	-	491	-	425	
962•86	-	354	-	273	-	273	-	500	-	408	
1187•65		204	200	227	227	227	227	273	273	325	

STA PHI = 22•5 67•5 112•5 157•5

STA

PHI =

22•5

67•5

112•5

157•5

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PHI =

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112•5

TWT 77 BLOW 27
CONFIG E40 T16 C2 S3 K 1 E

PRESSURE COEFFICIENTS (DELTA P)/Q

STA	PHI =	00	45	90	135	180	225	270	280	290	315
DEC =	3	3	3	3	3	3	3	3	3	3	3
ALPHA	1480	BN	886								
371•46	-	397									
378•55	-	204	-	600							
398•00	-		194	353	534	1192					
425•10	-	2		418		973					
443•82	-	21	76	348	672	856					
459•10	-	65	260	555	703						
472•37	-	250	-	61	57	289	406				
479•28	-	787	-	461	-	652	-	1130	-	1075	-
500•00	-	511	-	491	-	619	-	741	-	709	-
516•37											
572•00	-	371	-	473	-	453	-	178	16		- 645
756•73		89	66	55		248		402			
774•92	143	100	171	397							
793•10		104	182	435							
811•28		71	91	357							
829•46		90	35	28							
847•64		48									
865•83		7									
930•19	-	401	-	704	-	674	-	476	-	361	
962•86			-	349	-		-	448	-	291	
1187•65		136	140	135	178			343			
STA	PHI =	22.5	67.5	112.5	157.5						
DEC =	3	3	3	3	3						
1323•83	-	553	-	561	-	584	-	630			

SID 62

APPENDIX

TWT 77 BLOW 28

CONFIG E35 T16 C2 S3 K_ I B

TUNNEL CONDITIONS

TIME	ALPH	BN	HO	PO	M	Q	TTO	RN	V
DEC 1	2			1	3	1	1	3	1
78	22	647	3778	21156	949	13346	5447	7830	9997
118	20	767	3775	21156	948	13320	5450	7813	9992
157	430	885	3765	20896	957	13396	5442	7831	10060
197	423	1006	3740	20786	956	13292	5426	7805	10035

~~CONFIDENTIAL~~

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SID 62 929
APPENDIX A

TWT 77 BLOW 28

CONCLUDING REMARKS 18

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA 22 BN 647

STA

PHI = 00 45 90

MÉTODOS

114 130

270 288 292

450 446
449 451
452

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BEB = 168 = 688 =

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卷之三

340 350

230

- 536 - 550 - 548

272 282 273

STA

$$= 22.05 \quad 67.05 \quad 112.05 \quad 157.05$$

1323.83

6

$$= 598 - 615 = - 604$$

SID 62 929

APPENDIX

A

TWT 77 BLOW 28

CONFIG E35 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA	20	BN	767						
STA	PHI =	00	45	90	135	180	225	270	280
	DEC =	3	3	3	3	3	3	3	3
371•46		134							
378•55		127							
398•00			108						
425•10		267							
443•82		439	447						
459•10				444					
472•37		160	161	198					
479•28		-	1099	-	1102	-	1107	-	1102
500•00		-	884	-	887	-	900	-	908
516•37									
572•00		-	510	-	494	-	499	-	493
756•73		352	333	334	339	339	337		
774•92		501	421	423	431	431	427		
793•10			413	420	442	442	434		
811•28			358	340	357	357	353		
829•46		314	281	280	271	271	285		
847•64			231						
865•83		179							
930•19		-	556	-	551	-	563	-	561
962•86				-	585	-	594	-	587
1187•65					263	277	270	284	269
	STA	PHI =	22•5	67•5	112•5	157•5			
	1323•83	DEC =	3	3	3	3	3	3	3
			590	-	613	-	602	-	596

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SID 62 920

APPENDIX A

TWT 77 BLOW 28

CONFIG E35 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTAP)/Q

SID 62 929

APPENDIX

A
=

TWT 77 BLOW 29

CONFIG E35 T16 C2 S3 K I B

TUNNEL CONDITIONS

TIME	ALPH	BN	HO	PO	M	Q	TTO	RN	V
DEC 1	2			1	3	1	1	1	1
75 -	397	1008	3775	21437	937	13167	5344	7983	9791
113 -	196	1124	3769	21287	941	13208	5331	8010	9820
153	1007	1243	3752	20828	957	13348	5310	8057	9937
192	1484	1360	3740	20921	950	13219	5290	8054	9858

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SID 62 929

APPENDIX

A

TWT 77 BLOW 29

CONFIG E40 T16 C2 S3 K 1 8

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA	- 397	BN	1008								
STA	PHI=	00	45	90	135	180	225	270	280	290	315
DEC=	3	3	3	3	3	3	3	3	3	3	3
371.46		110		77				122			
378.55		58		52	89	123		148			
398.00					375			210			
425.10		779	745	566	295			202			
443.82		799	566	493	282			157			
459.10											
472.37		233	234	197	79	- 69					
479.28		- 1156	- 1190	- 1185	- 1163	- 1176	- 1156				
500.00		- 995	- 1006	- 1015	- 930	- 844		- 1112			
516.37								- 424			
572.00		- 463	- 488	- 441	- 195	- 184		- 269			- 330
756.73		384	339	313	291	257					
774.92		461	424	374	304						
793.10		470	430	374	297						
811.28		371	328	267	260						
829.46		409	289	259	212	187					
847.64		284									
865.83		236									
930.19		- 541	- 550	- 590	- 618	- 593					
962.86			- 589	- 647	- 664	- 426					
1187.65		280	286	263	253	230					
STA	PHI=	22.5	67.5	112.5	157.5						
1323.83	DEC=	3	3	3	3						

K26

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APPENDIX A

TNT 77 BLOW 29

CONE1C E40 T16 C2 S3 K 1 B

ACCESSED COFFEE CLIENTS (DETAILED)

ALPHA = 196 BN 1124

315
300
290
270
255
235
190
125
20
15

卷之三

341.46
126

69 **87** **121** **138**

628

245 229 186 114 62

1062 -

- 42 -

375 338 325 311 294

451 429 396 358

271 294 273 238 333

192

= 560 - 561 = 567 - 591 = 576

SCTA BH 3 22.5 67.5 112.5 157.5

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CONFIG E40 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA 1007 BN 1243

STA	PHI =	00	45	90	135	180	225	270	280	290	315
	DEC =	3	3	3	3	3	3	3	3	3	3
371.46	52	-	109	-	276						
378.55	103	-									
398.00	76	358	122	1208							
425.10	221	619			910						
443.82	201	317	499	675	766						
459.10	270	392	523	615							
472.37	- 174	58	159	286	338						
479.28	- 912	- 1210	- 1189	- 1145	- 1111	- 1145					
500.00	- 577	- 1099	- 1073	- 937	- 870						
516.37						- 586					
572.00	- 414	- 356	- 449	- 369	- 229		- 434			- 491	
756.73	126	173	199	313	385						
774.92	183	248	324	456	548						
793.10	248	322	485		584						
811.28	166	222	384		491						
829.46	132	112	175	329	426						
847.64	87										
865.83	47										
930.19	- 489	- 642	- 606	- 501	- 435						
962.86	-	- 348	-	- 504	- 412						
1187.65	201	205	229	276	324						

STA PHI = 22.5 67.5 112.5 157.5

STA	PHI =	00	45	90	135	180	225	270	280	290	315
	DEC =	3	3	3	3	3	3	3	3	3	3
1323.83	- 549	- 604	- 628	- 644							

TWT 77 BLOW 29

CONCLUDING COMMENTS 18

PRESSURE COEFFICIENTS (DELTA P)/Q

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APPENDIX

TWT 77 BLOW 30
CONFIG E35 T16 C2 S3 K I B

2ND REDUCTION

TUNNEL CONDITIONS

TIME	ALPH	BN	HO	PO	M	Q	TTO	RN	V	Y
DEC 1	2		1	1	3	1	1	1	1	1
78	203	902	3774	21070	952	13365	5348	8018	9928	
118	206	1023	3768	21090	950	13314	5334	8025	9896	
159	609	1144	3755	20866	956	13347	5317	8047	9935	
196	604	1255	3728	20785	953	13218	5297	8024	9891	

TWT 77 BLOW 30 2ND RED.

CONFIG E35 T16 C2 S3 K I B

PRESSURE COEFFICIENTS ($\Delta T / P$)

SID 62 929
APPENDIX A

TWT 77 BLOW 30 2ND RED.

CONE 16 E35 T16 C2 S3 K 1 B

PROGRESSIVE COEFFICIENTS (ΔTAP)/Q

SID 62 929
APPENDIX

TWT 77 BLOW 30 2ND RED.

CONFIG E35 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA 609 BN 1144

STA	PHI =	00	45	90	135	180	225	270	280	290	315
	DEC =	3	3	3	3	3	3	3	3	3	3
371•46	101										
378•55	124										
398•00		89	77		63	295					
425•10		238		489		1041					
443•82	211	280		621	757	777					265
459•10		292	494		560	606					
472•37	- 117	87	214		271	311					
479•28	- 1156	- 1135	- 1162	- 1147	- 1128	- 1145					
500•00	- 814	- 948	- 1030	- 972	- 949						- 1144
516•37											
572•00	- 350	- 539	-	-	449	- 385					- 555
756•73	286	310	322	363	394						
774•92	367	391	436	501	536						
793•10		376	435	512	554						
811•28		287	333	406	453						
829•46	217	220	267	326	381						
847•64	152										
865•83	100										
930•19	- 571	- 595	- 573	- 518	- 477						
962•86		- 668	- 623	- 539	- 488						
1187•65	255	267	276	300	312						
STA	PHI =	22.5	67.5	112.5	157.5						

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APPENDIX A

1323.83 - 561 - 591 - 627 - 653

TWT 77 BLOW 30 2ND RED.

CONEIG E35 T16 C2 S3 K 1 B

APPENDIX B: COEFFICIENTS (DELTAP) / Q

ALPHA	604	BN	1255								
STA	PHIX	00	45	90	135	180	225	270	280	290	315
	DEC=	3	3	3	3	3	3	3	3	3	3
371.46		100		68							
378.55		108									30
398.00			85	65	67						292
425.10		239		478							1027
443.82		216	279	625	745						275
459.10			274	498	569						
472.37		- 118	61	210	279						
479.28		- 1175	- 1141	- 1167	- 1153	- 1138	- 1156				
500.00		- 820	- 951	- 1035	- 980	- 958					- 1150
516.37											
572.00		- 312	- 507	-	- 449	-	388				
756.73		280	303	319	360						
774.92		354	388	433	495						
793.10			381	429	508						555
811.28			271	322	401						442
829.46		223	206	243	338						384
847.64											
865.83											
930.19		-	- 574	-	588	-	579	-	527	-	493
962.86											
1187.65		251		265	276						304

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APPENDIX A

TWT 77 BLOW 31

CONFIG E35 T16 C2 S3 K 1 B

TUNNEL CONDITIONS

TIME	ALPH	BN	HO	PO	M	Q	TTO	RN	V
DEC 1	2				1	3	1	3	1
78 -	402	704	3770	20111	992	13841	5350	8104	10277
116 -	199	817	3773	19949	999	13945	5338	8153	10332
154	1011	931	3758	19371	1021	14132	5322	8195	10502
192	1484	1047	3743	19453	1014	14001	5300	8195	10421

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APPENDIX A

TWT 77 BLOW 31

CONFIG E35 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA - 402 BN 704

STA	PHI =	00	45	90	135	180	225	270	280	290	315
	DEC =	3	3	3	3	3	3	3	3	3	3
371.46		155			137						171
378.55		121			116	176					195
398.00			101		404						259
425.10		788			591	343					281
443.82		842	799								826
459.10			624	547	338						
472.37		322	315	270	147						
479.28		- 1007	- 1032	- 1031	- 1009	- 1022	- 1005				
500.00		- 859	- 872	- 880	- 797	- 712					
516.37							- 329				
572.00		- 400	- 424	- 480	- 474	- 485					
756.73		458	412	386	363	328					
774.92			529	490	435	369					
793.10			536	486	434	373					
811.28			434	402	346	324					
829.46		485	399	352	309	283					
847.64			371								
865.83		322									
930.19		- 414	- 434	- 467	- 507	- 474					
962.86			- 482	- 530	- 545	- 450					
1187.65		350	361	336	334	306					

STA PHI = 22.5 67.5 112.5 157.5

STA	PHI =	00	45	90	135	180	225	270	280	290	315
	DEC =	3	3	3	3	3	3	3	3	3	3
1323.83		- 697	- 699	- 734	- 669						

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APPENDIX A

TWT 77 BLOW 31

CONFIG E35 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA - 199 BN 817

STA	PHI#	00	45	90	135	180	225	270	280	315	
STA	DEC#	3	3	3	3	3	3	3	3	3	
371.46	186										
378.55	146										
398.00	494	130	146	157	165	185					
425.10	713	671	530	388	388	264					
443.82							679				
459.10	612	522	398	398	398	330					
472.37	302	302	268	211	211	132					
479.28	-	991	-	991	-	967	-	959	-	967	
500.00	-	816	-	816	-	802	-	751	-	731	
516.37											
572.00	-	419	-	421	-	445	-	441	-	446	
756.73	443	412	396	396	378	378	363				
774.92											
793.10											
811.28											
829.46											
847.64											
865.83											
930.19	-	427	-	437	-	449	-	459	-	464	
962.86											
1187.65	354	362	342	342	345	345	324				

STA PHI# 22.5 67.5 112.5 157.5

1323.83 DEC# 3 3 3 3 3 3 3 3 3 3 3 3

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APPENDIX A

TWT 777 BLOW 31

CONFIG E35 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA 1011 BN 931

STA PHI= 00 45 90 135 180 225 270 280 290 315

DEC=	3	3	3	3	3	3	3	3	3
371.46	133	-	44	44	44	44	44	44	297
378.55	166	134	379	136	136	136	136	136	1245
398.00	281	281	688	688	688	688	688	688	970
425.10	287	390	565	739	739	739	739	739	380
443.82	387	338	461	609	609	609	609	609	
459.10									690
472.37	-	58	156	246	363	417	417	417	
479.28	-	1026	-	1021	-	979	-	947	-
500.00	-	735	-	988	-	926	-	799	-
516.37									515
572.00	-	-	-	-	-	-	-	-	-
756.73	355	317	313	394	394	394	394	394	456
774.92	434	353	414	529	529	529	529	529	
793.10		367	423	562	562	562	562	562	656
811.28		323	345	471	471	471	471	471	
829.46	309	262	276	417	417	417	417	417	520
847.64	234								
865.83	179								
930.19	-	458	-	497	-	467	-	373	-
962.86		-	575	-	510	-	373	-	290
1187.65		312	305	307	335	335	335	395	

STA PHI= 22.5 67.5 112.5 157.5

DEC= 3 3 3 3
1323.83 - 604 - 674 - 671 - 676

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TWT 77 BLOW 31

CONFIG E35 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/9

ALPHA 1484 BN 1047

STA	PHI=	00	45	90	135	180	225	270	280	290	315
DEC#		3	3	3	3	3	3	3	3	3	3
371.46	-	238									
378.55	150	-	327								
398.00	405	554	856	1191							
425.10	252	519	983								
443.82	216	265	421	724	887						245
459.10	210	346	597	749							
472.37	-	104	42	159	374	476					
479.28	-	1020	-	1090	-	1056	-	984	-	930	-
500.00	-	934	-	1065	-	962	-	731	-	613	-
516.37											- 849
572.00	-	365	-	425	-	455	-	455	-	455	-
756.73	298	158	155	324	465						
774.92	395	204	256	470							
793.10		229	262	500	685						
811.28		223	169	429	594						
829.46	264	186	129	381	558						
847.64	193										
865.83	137										
930.19	502	-	560	-	547	-	373	-	251		
962.86		-	579	-	574	-	343	-	196		
1187.65		259	255	207	236	401					
1323.83	STA	PHI=	22.5	67.5	112.5	157.5					
1323.83	DEC#		3	3	3	3					

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APPENDIX A

TWT 77 BLOW 32

CONFIG E35 T16 C2 S3 K 1 B

TUNNEL CONDITIONS

	TIME	ALPH	BN	HO	PO	M	O	TTO	RN	V
DEC 1	2		1	1	3	1	1	1	3	1
76	6	772	3766	19760	1006	13992	5332	8161	10383	
113	8	884	3775	19728	1009	14067	5322	8209	10403	
152	416	999	3755	19479	1015	14061	5307	8209	10441	
192	411	1119	3737	19426	1014	13975	5286	8208	10406	

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APPENDIX A

TWT 77 BLOW 32

CONFIG E35 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA	6	BN	772								
STA	PHI*	00	45	90	135	180	225	270	280	290	315
	DEC=	3	3	3	3	3	3	3	3	3	3
371.46		202									
378.55		185									
398.00		174	177	171	176						
425.10		315		320		328					
443.82		503	506	516	514	529					
459.10		517	528	534	521						
472.37		257	279	275	291	271					
479.28		933	950	954	950	944	949				
500.00		754	759	765	760	768					
516.37											
572.00		- 434	- 421	- 428	- 419	- 412					
756.73		416	400	398	400	399					
774.92		557	476	483	486	482					
793.10			483	486	493	499					
811.28			421	418	419	424					
829.46		403	363	340	359	371					
847.64		319									
865.83		273									
930.19		- 432	- 424	- 427	- 430	- 432					
962.86			- 470	- 475	- 471	- 464					
1187.65		343	356	344	356	343					

STA PHI* 22.5 67.5 112.5 157.5

1323.83 DEC= 3 - 691 - 697 - 699 - 3
3 3 3 3 3 3 3 3 3 3 3 3

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TWT 77 BLOW 32

CONFIG E35 T16 C2 S3 K I B

PERFUSURE COEFFICIENTS ($\Delta T_A / \Delta T_P$)

ALPHA	8	BN	884									
STA	PHI =	00	45	90	135	180	225	270	280	290	315	
	DEC =	3	3	3	3	3	3	3	3	3	3	
371.46		196		190								
378.55		198										
398.00			172	174	162	167						
425.10		320			313							
443.82		517	502	514	504	518						
459.10			524	521	515	522						
472.37		255	277	287	281	274						
479.28		- 939	- 940	- 946	- 941	- 935	- 936					
500.00		- 749	- 750	- 755	- 751	- 758						
516.37												
572.00		- 430	- 420	- 420	- 415	- 409						
756.73		414	399	400	400	400						
774.92		558	477	482	482	482						
793.10			483	493	492	499						
811.28			418	415	429	422						
829.46		395	350	369	359	376						
847.64		326										
865.83		269										
930.19		- 413	- 429	- 426	- 434	- 437						
962.86		- 468	- 473	- 467	- 458							
1187.65		356	347	360	346							

STATA 15 RELEASE NOTES

DEC# - 687 - 690 - 702 - 688
1323.83 3 3 3 3

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TWT 77 BLOW 32

CONFIG E35 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA 416 BN 999

STA PHI = 00 45 90 135 180 225 270 280 290 315

DEC= 3 3 3 3 3 3 3 3 3 3

371.46	175	158	138						
378.55	190	197	149	119	109				
398.00	278	406				804			
425.10	280	357	617	809	866				
443.82		361	580	658	664				
459.10									348
472.37	12	169	305	363	371				
479.28	-	962	-	951	-	968	-	974	
500.00	-	656	-	748	-	826	-	816	-
516.37									927
572.00	-	479	-	448	-	452	-	392	-
756.73		336	372	397	425	438			
774.92	390	440	492	538	558				
793.10									
811.28									
829.46	308	316	356	407	438				
847.64	261								
865.83	205								
930.19	-	421	-	433	-	428	-	407	-
962.86									
1187.65	325	342	362	368	373				

STA PHI = 22.5 67.5 112.5 157.5

DEC= 3 3 3 3

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TWT 77 BLOW 32

CONFIG E35 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA	411	BN	1119
STA	PHI =	00	45
	DEC =	3	3
371.46	178	164	134
378.55	202	219	147 119 177
398.00	282	386	801
425.10	281	349	604 812 881
443.82	36	153	292 353 383
459.10	367	567	647 670
472.37	973	- 952	- 973 - 978 - 969 - 977
479.28	-	-	-
500.00	- 653	- 753	- 825 - 819 - 811 -
516.37	-	- 481	- 447 - 445 - 389 - 351 -
572.00	-	-	-
756.73	333	370	399 425 438
774.92	389	439	493 538 555
793.10	440	506	555 577
811.28	377	412	465 483
829.46	311	329	367 414 430
847.64	252		
865.83	208		
930.19	-	418	- 436 - 437 - 399 - 385
962.86	-	505	- 485 - 440 - 409
1187.65	324	343	359 372 373

STA PHI = 22.5 67.5 112.5 157.5
1323.83 DEC = 3 3 3 3

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TWT 77 BLOW 34

CONFIG E35 T16 C2 S3 K 1 B

TUNNEL CONDITIONS

TIME	ALPH	BN	HO	PO	M	Q	TTO	RN	V
DEC 1	2			1	3	1	1	3	1
74	220	662	3766	19523	1016	14106	5338	8172	10475
114	219	782	3746	19507	1012	13994	5332	8133	10439
152	623	897	3751	19279	1023	14136	5319	8193	10520
190	622	1009	3740	19274	1021	14067	5300	8202	10481

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APPENDIX A

TWT 77 BLOW 34

CONFIG E35 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA	220	BN	662	
STA	PHI#	00	45	90
	DEC#	3	3	3
371.46	199	183	173	
378.55	203	195	169	144
398.00			363	163
425.10	274		551	517
443.82	352	405	699	738
459.10		420	537	628
472.37	135	210	290	353
479.28	-	922	939	949
500.00	-	701	735	779
516.37			-	-
572.00	-	451	426	426
756.73		376	380	400
774.92		469	451	494
793.10			466	508
811.28			389	425
829.46		348	338	355
847.64			284	395
865.83		239		416
930.19	-	417	-	427
962.86			-	468
1187.65		336	350	357
STA	PHI#	22.5	67.5	112.5
	DEC#	3	3	3
1323.83	-	685	-	740
			-	717
			-	716

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TWT 77 BLOW 34

CONFIG E35 T16 C2 S3 K I B

PRESSURE COEFFICIENTS (DELTA P)/Q

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APPENDIX

TWT 77 BLOW 34

CONFIG E35 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA 623 BN 897

STA PHI# 00 45 90 135 180 225 270 280 290 315

		DEC#	3	3	3	3	3	3	3	3
		163								
		166								
		145	129	119						
		305		532						
		305	332	687	817					
		305								
		345	569	631	666					
		15	174	301	368					
		-								
		986	-	959	-	988	-	974	-	955 - 974
		-								
		680	-	797	-	874	-	820	-	797
		-								
		513	-	462	-	469	-	363	-	301
		-								
		330	362	380	422	448				
		382	424	477	544	581				
		428	494	572	614					
		366	397	481	520					
		304	311	344	421	459				
		242								
		199								
		-								
		431	-	437	-	425	-	374	-	347
		-								
		531	-	489	-	408	-	359	-	
		-								
		327	337	352	365	384				
		22.5	67.5	112.5	157.5					

STA PHI# 22.5 67.5 112.5 157.5

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APPENDIX A

TWI 77 BLOW 34

CONCLUDING REMARKS 18

PRESERVE COEFFICIENTS (DELTAP) / 9

ALPHA	622	BN	1009
STA	PHI#		
DEC#	3	3	3
371.46	167		
378.55	174	141	90
398.00	146	122	117
425.10	303	535	323
443.82	304	686	1083
459.10	337	813	318
472.37	339	577	854
479.28	- 26	644	675
500.00	- 1002	311	392
516.37	- 964	369	392
572.00	- 1002	992	959
756.73	- 796	- 979	- 978
774.92	- 884	- 823	- 796
793.10	- 884	- 823	- 796
811.28	- 796	- 979	- 978
829.46	- 884	- 823	- 796
847.64	- 884	- 823	- 796
865.83	- 884	- 823	- 796
930.19	- 884	- 823	- 796
962.86	- 884	- 823	- 796
1187.65	- 884	- 823	- 796
1323.83	- 884	- 823	- 796
STA	PHI#		
DEC#	3	3	3

~~CONFIDENTIAL~~

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SID 62 929

TWT 77 BLOW 35
CONFIG E40 T16 C2 S3 K 1 B

TUNNEL CONDITIONS

TIME	ALPH	BN	HO	PO	M	Q	TTO	RN	V
DEC 1	2			1	3	1	1	3	1
65 -	382	676	3779	20010	998	13954	5346	8146	10330
95 -	173	766	3762	19873	1000	13912	5346	8113	10346
125	1033	856	3764	19335	1024	14190	5338	8185	10543
152	1491	936	3756	19458	1017	14080	5327	8173	10471

TWT 77 BLOW 35

CONFIG E40 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

STA	PHI =	00	45	90	135	180	225	270	280	290	315
ALPHA	-	382	BN	676							
DEC =	-	3	3	3	3	3	3	3	3	3	3
371.46	-	8	-	-	-	42					13
378.55	-	47	-	22	25	6	50				
398.00	-		-								
425.10		622		311							140
443.82		791	686	461	218		135				
459.10		627	466	232	99						699
472.37		356	333	230	88	-	80				
479.28	-	966	-	1013	-	1006	-	1005	-	1004	-
500.00	-	802	-	816	-	785	-	726	-	559	-
516.37	-										
572.00	-	355	-	367	-	402	-	358	-	319	-
756.73	-	441	399	367	326	280					382
774.92		640	515	467	398		320				
793.10		528	474	402			320				
811.28		445	381	340							291
829.46		455	379	318	269		235				
847.64		359									
865.83		300									
930.19	-	425	-	429	-	466	-	501	-	475	
962.86	-		-	478	-	525	-	532	-	400	
1187.65		351	363	336	322			287			
STA	PHI =	22.5	67.5	112.5	157.5						
DEC =	-	3	3	3	3						
1323.83	-	764	-	765	-	799	-	730			

SID 62 929

APPENDIX A

TWT 77 BLOW 35

CONFIG E40 T16 C2 S3 K I B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA	-	173	BN	BN	766							
STA	PHI =	00	45	90	135	180	225	270	280	290	315	
	DEC =	3	3	3	3	3	3	3	3	3	3	
371.46	-	8										
378.55	-	60	-	27								9
398.00	-	35	-	32	16							55
425.10	385			251								137
443.82	587	538	433	273	220							513
459.10		536	438	306	226							
472.37	296	320	219	147	54							
479.28	-	935	-	937	-	934	-	922	-	913	-	919
500.00	-	684	-	691	-	664	-	619	-	545	-	804
516.37												- 288
572.00	-	363	-	351	-	356	-	340	-	347	-	345
756.73		419	392	370	345	321						- 319
774.92		586	482	459	423	376						
793.10			487	470	429	383						
811.28			419	387	363	331						
829.46		417	356	332	308	287						
847.64			327									
865.83			275									
930.19	-	424	-	428	-	447	-	462	-	450		
962.86				- 477	-	490	-	488	-	425		
1187.65		347	357	333	331	305						

APPENDIX A

TWT 77 BLOW 35
CONFIG E40 T16 C2 S3 K I B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA	1033	BN	856
STA	PHI =	00	45
	DEC =	3	3

371.46	-	74	
378.55	-	12	- 226
398.00	-	82	163 - 191
425.10	61		593 1031
443.82	97	188	560 769 874
459.10		209	461 627 722
472.37	-	157	73 239
479.28	-	1007	- 1036 - 1012 - 966
500.00	-	514	- 942 - 896 - 761 - 698
516.37			
572.00	-	411	- 421 - 492 - 283 - 175
756.73	315	299	304 395 463
774.92	407	345	408 531 615
793.10		349	416 564 657
811.28		285	317 472 561
829.46	268	234	268 420 507
847.64		197	
865.83	155		
930.19	-	479	- 490 - 472 - 380 - 300
962.86			- 589 - 517 - 373 - 288
1187.65	305	292	300 330 393

STA PHI = 22.5 67.5 112.5 157.5

1323.83	DEC =	3	3	3	3
		600	- 699	- 672	- 678

SID 62 929
APPENDIX A

TWT 77 BLOW 35

CONIEC EAO TIE C2 S3 K 1 8

BDESSI/BDE COEFFICIENTS (DELTA P)/Q

ALPHA 1491 8N 936

EIA PH1 = 32.5 67.5 112.5 157.5

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SID .62 929
APPENDIX A

TWT 77 BLOW 36

CONFIG E40 T16 C2 S3 K 1 B

TUNNEL CONDITIONS

TIME	ALPH	BN	HO	PO	M	C	TTO	RN	V
DEC 1	2			1	3	1	1	3	1
76	11	1017	3780	19699	1012	14112	5339	8191	10440
116	16	1136	3779	19646	1014	14134	5334	8204	10453
157	420	1259	3766	19422	1021	14159	5322	8213	10499
195	417	1373	3738	19332	1018	14025	5305	8180	10461

135

SID 62 929
APPENDIX A

TWT 77 BLOW 36

CONFIG E40 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA 11 BN 1017

STA	PHI*	00	45	90	135	180	225	270	280	290	315
DEC#		3	3	3	3	3	3	3	3	3	3
371.46		8									
378.55	-	20	-	21	-	24	-	27	-	31	
398.00			-		1	-					4
425.10		119		135							141
443.82	297	320	324	329	345						280
459.10		403	413	422	413						
472.37	219	250	258	244	240						
479.28	-	865	-	878	-	880	-	872	-	870	-
500.00	-	577	-	599	-	599	-	604	-	608	-
516.37											769
572.00	-	339	-	313	-	322	-	314	-	321	-
756.73	387	376	376	376	377	376					271
774.92	527	447	456	456	456	458					302
793.10		448	472	466	466	464					
811.28		395	393	406	406	407					
829.46	385	349	355	356	357						
847.64	303										
865.83	248										
930.19	-	416	-	418	-	416	-	437	-	428	
962.86			-	453	-	460	-	456	-	449	
1187.65	339	350	341	350	342						

STA PHI* 22.5 67.5 112.5 157.5

APPENDIX A

SID 1323.83 DEC# - 3 - 718 - 722 - 726 - 715 62 929

TWT 77 BLOW 36

CONFIG E40 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA	16	BN	1136								
STA	PHI =	00	45	90	135	180	225	270	280	290	315
	DEC =	3	3	3	3	3	3	3	3	3	3
371.46		12			10			-	6		
378.55	-	8	-	20	-	6	-	23	-	2	
398.00			-								
425.10		115			149					151	
443.82		291	319	341		335					276
459.10			405	422	422						
472.37		189	232	250	264			249			
479.28	-	855	-	855	-	858	-	851	-	853	-
500.00	-	549	-	564	-	578	-	575	-	583	-
516.37											741
572.00	-	335	-	313	-	323	-	311	-	316	-
756.73		387	372	377	381						- 300
774.92		519	447	458	459						
793.10			456	465	471						
811.28			393	406	407						
829.46		373	338	328	358						
847.64			298								
865.83			257								
930.19	-	417	-	412	-	415	-	417	-	420	
962.86	-		-	450	-	457	-	454	-	444	
1187.65		341	350	341	356			345			
	STA	PHI =	22.5	67.5	112.5	157.5					
1323.83	DEC =	3	3	3	3	3					

\$ID 62 929

APPENDIX A

TWT 77 BLOW 36

CONFIG E40 T16 C2 S3 K 1 B
PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA	420	BN	1259								
STA	PHI=	00	45	90	135	180	225	270	280	290	315
	DEC#	3	3	3	3	3	3	3	3	3	3
371.46		10			1						
378.55		46			12	64 -	7				45
398.00		150			344						685
425.10		158	233	500	754						225
443.82		258	480	658	854						
459.10											
472.37	-	95	103	257	379						
479.28	-	915	923 -	917 -	926 -	922 -	920				
500.00	-	451	649 -	699 -	719 -	723					801
516.37											
572.00	-	351	-	342 -	387 -	337 -	299				- 273
756.73		293	335	380	416	433					- 324
774.92		358	405	478	533	553					
793.10			405	494	556	574					
811.28			340	416	460	496					
829.46		271	278	366	392	434					
847.64		227									
865.83		178									
930.19	-	422	-	448 -	421 -	406 -	385				
962.86			-	497 -	483 -	437 -	399				
1187.65		296	330	359	371	381					
	STA	PHI=	22.5	67.5	112.5	157.5					
		DEC#	3	3	3	3					
SID	1323.83	-	657	-	749	-	735	-	706		
62											
929											

TWT 77 BLOW 36

CONFIG E40 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA 417 BN 1373

STA	PHI=	00	45	90	135	180	225	270	280	290	315
DEC=		3	3	3	3	3	3	3	3	3	3
371.46		14									
378.55		27		-	12	-					
398.00			22		51	-	7				
425.10		143			335						
443.82		156	231	492	752	827					
459.10			253	482	660	716					214
472.37		-	97	93	258	388	415				
479.28		-	925	-	920	-	931	-	923	-	927
500.00		-	450	-	652	-	697	-	723	-	720
516.37		-	350	-	341	-	386	-	340	-	303
532.00		-	287	333	378	419	433				- 275
756.73											- 341 - 324
774.92		349	406	477	531	553					
793.10			412	485	552	583					
811.28				337	408	469	486				
829.46				268	288	324	390	440			
847.64					219						
865.83					173						
930.19		-	433	-	449	-	429	-	393	-	384
962.86			-	497	-	488	-	439	-	408	
1187.65				306	332	360	372	377			
STA	PHI=	22.5	67.5	112.5	157.5						
1323.83	DEC=	3	3	3	3	3	3	3	3	3	
		-	652	-	746	-	731	-	711		

SID 62 929
APPENDIX A

TWT 77 BLOW 37

CONFIG E40 T16 C2 S3 K 1 B

TUNNEL CONDITIONS

TIME	ALPH	BN	HO	PO	M	Q	TTO	RN	V	W
DEC 1	2				1	3	1	1	3	1
81	224	768	3793	19584	1019	14246	5372	8169	10538	
121	225	888	3768	19543	1016	14110	5368	8114	10502	
158	628	1001	3748	19376	1019	14071	5355	8106	10514	
197	625	1117	3723	19290	1017	13955	5336	8084	10479	

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SID 62 929
APPENDIX A

TNT 77 B7 MO 37

CONIC ENO TIE CAS 8 1 8

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA	224	BN	768								
STA	PHI =	00	45	90	135	180	225	270	280	290	315
	DEC =	3	3	3	3	3	3	3	3	3	3
371.46		11									
378.55		29		-	16		-	41			
398.00			33		41	-	17		94		
425.10		156			279				413		
443.82		205	270		446	571		633			
459.10			292		449	590		629			
472.37		36	133		239	350		368			
479.28		-	882	-	904	-	905	-	906	-	907
500.00		-	498	-	613	-	653	-	680	-	691
516.37		-	350	-	324	-	342	-	334	-	317
572.00		-								-	278
756.73		328	351		381	405		414			
774.92		415	422		468	506		520			
793.10			432		475	522		535			
811.28			370		405	438		476			
829.46		320	321		342	393		407			
847.64			257								
865.83		214									
930.19		-	411	-	432	-	417	-	409	-	400
962.86			-	457	-	463	-	442	-	425	
1187.65		318	337		354	370		373			

SID 62 929
APPENDIX

TWT 77 BLOW 37

CONFIG E40 T16 C2 S3 K I B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA 225 BN 888

STA	PHI#	00	45	90	135	180	225	270	280	290	315
DEC#		3	3	3	3	3	3	3	3	3	3
371.46		2	-	4	-	-	-	-	-	-	-
378.55		22	-	42	-	13	-	88	-	38	-
398.00		152		272		580		425		250	
425.10		202	275	437	580	636					
443.82			304	450	580	621					
459.10		1	179	242	340	361					
472.37		-	885	-	898	-	899	-	898	-	896
479.28		-	486	-	600	-	636	-	669	-	677
500.00		-	-	-	-	-	-	-	-	-	-
516.37		-	349	-	328	-	346	-	335	-	319
572.00		-	328	351	382	409	417				
756.73		411	425	469	509	524					
774.92			4.34	483	521	539					
793.10			361	408	445	449					
811.28		317	325	344	367	412					
829.46		246									
847.64		200									
865.83											
930.19		-	423	-	434	-	415	-	399	-	388
962.86			-	459	-	470	-	446	-	427	
1187.65		314	342	357	370	369					

STA PHI# 22.5 67.5 112.5 157.5

DEC# 3 3 3 3
1323.83 - 674 - 733 - 710 - 711SID 62 929
APPENDIX A

TWT 77 BLOW 37

THE JOURNAL OF CLIMATE

CONF 1G E40 116 C2 S3 K1 B

PRESSURE COEFFICIENTS (DELTAP)/Q

AI BHA 628 BN 1001

DECEMBER 1963

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-
71.46

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411 118 10:55:10 985

120 210 520 400 310 210 650 300 220 120

72.37 - 140 = 45 283 403 433

— 884 —
— 288 —

$$343 - 6 \cdot 37$$

12.00 = **351** = **359** = **438** = **333** = **218** = **417**

14.82
13.33 **400** **472** **545** **583**

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478 **406**

17.64 203

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= 547 - 502 = 416 - 368

387.65 312 329 352 365

STA PHI = 22.5 67.5 112.5 157.5

3 3 3 3

1323.83

SID 62 929

APPENDIX A

PRESSURE COEFFICIENTS (DELTA P)/Q

\$ID 82 929

TWT 77 BLOW 36

CONFIG C2 S3 K 1 B

TUNNEL CONDITIONS

	TIME	ALPH	BN	HO	PO	M	Q	TTO	RN	V
DEC 1	2				1	3	1	1	3	1
81	8	814	3776	19802	1006	14037	5367	8117	10421	
119	8	929	3774	19798	1006	14023	5362	8121	10412	
157	416	1044	3761	19480	1017	14100	5350	8140	10495	
196	411	1161	3735	19403	1014	13976	5332	8113	10457	

TWT 77 BLOW 38

CONFIG C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA 8 BN 814

STA	PHI#	00	45	90	135	180	225	270	280	290	315
	DEC#	3	3	3	3	3	3	3	3	3	3
371.46	1281	894	918	895							
378.55											
398.00		794	787	789	790						
425.10		669	667	664							
443.82		572	580	567	565	584					
459.10			470	470	470	471					594
472.37		229	274	261	260	250					
479.28		-1034	-1064	-1069	-1067	-1062	-1065				
500.00		-1006	-1005	-1004	-1006	-1012					-1096
516.37		-	571	-	563	-	558	-	553	-	571
572.00		-	446	429	429	427	427		532	-	559
756.73			567	505	510	510	508				
774.92											
793.10				528	523	528	530				
811.28				452	454	455	449				
829.46			448	379	371	395	394				
847.64				350							
865.83			295								
930.19		-	419	-	416	-	427	-	438	-	431
962.86				-	483	-	487	-	484	-	478
1187.65				354	361	353	363	349			

STA PHI# 22.5 67.5 112.5 157.5

SID 62 929 APPENDIX A

INT 77 B1 ON 38

CONCLUDING

ADDRESS LINE COEFFICIENTS (DETAILED)

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Ergonomics in Design, Vol. 13, No. 3, 2002 19

668 668 668 668 668 668 668 668 668 668

465 468 469.10

$$-1044 - 1054 - 1056 = 99.28$$

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$\text{£}2.00$ $\text{£}1.72$ $=$ $\text{£}0.28$

4.92 565 503 507

1.028 446 447

339 7.64

122 123

- 486 - 487

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3-83 DEC- = 687 - 688 = 688

SID 62 929

CONFIG C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA	416	BN	1044								
STA	PHI=	00	45	90	135	180	225	270	280	290	315
DEC=	3	3	3	3	3	3	3	3	3	3	3
371.46	1275		886		979						
378.55	813		750	786	855	884					
398.00			568	665			753				
425.10			505	515	571	640	669				
443.82			416	468	529	554					530
459.10			200	227	245	305	322				
472.37			- 1034	- 1037	- 1032	- 1016	- 1003	- 1009			
479.28			- 1012	- 1002	- 964	- 918	- 904				- 1072
500.00											
516.37											
572.00			- 585	- 634	- 548	- 459	- 418				- 525
576.73			350	377	399	426	439				- 566
774.92			396	427	486	536	556				
793.10			447	507	565	589					
811.28			412	437	476	499					
829.46			375	353	372	421	440				
847.64			310								
865.83			260								
930.19			- 405	- 423	- 415	- 402	- 366				
962.86			-	- 501	- 484	- 430	- 396				
1187.65			340	354	361	367	369				

TWI 77 BLOW 38

CONFIG C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA 411 BN 1161

STA	PHI _z	00	45	90	135	180	225	270	280	290	315
DEC=	3	3	3	3	3	3	3	3	3	3	3
371.46	1274										
378.55	816										
398.00		757	776	847	874						
425.10	587										
443.82	509	508	565	639	661						
459.10		416	468	524	552						
472.37	209	207	247	297	319						
479.28		-1040	-1044	-1036	-1022	-1008	-1015				
500.00	-1015	-1006	-968	-923	-908						
516.37											
572.00	-	585	-607	-550	-465	-420					
756.73	357	378	402	426	440						
774.92	396	429	489	538	556						
793.10		454	509	567	585						
811.28		409	427	486	485						
829.46	377	352	372	411	449						
847.64	311										
865.83		254									
930.19	-	412	-436	-426	-400	-375					
962.86	-	506	-482	-439	-405						
1187.65	341	353	360	366	368						

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SID 62 929
APPENDIX A

TWT 77 BLOW 41

2ND REDUCTION

CONFIG E40 T16 C2 S3 K 1 B

TUNNEL CONDITIONS

TIME	ALPH	BN	HO	PO	M	Q	TTO	RN	V
DEC 1	2				1	3	1	1	1
166 -	423	742	3795	17588	1108	15128	5367	8318	11278
95 -	217	830	3768	17463	1108	15020	5367	8258	11278
125	990	918	3783	17690	1101	15020	5362	8295	11214
155	1467	1010	3764	18176	1075	14707	5351	8240	10987

TWT 77 BLOW 41 2ND RED.

CONIC EAO TIE C2 S3 K 1 8

BREWERIE COFFEEICIENTS (DELTAP) / Q

ALPHA	-	423	BN	742								
STA	PHI =	00	45	90	135	180	225	270	280	290	315	
DEC =	3	3	3	3	3	3	3	3	3	3	3	
371.46		99										
378.55		71										
398.00			113		192	111						
425.10		698			432							
443.82		879	780		566	341						
459.10			730		561	351						
472.37		486	464		349	211						
479.28		-	766	-	808	-	810	-	827	-	858	-
500.00		-	640	-	647	-	634	-	621	-	390	-
516.37												
572.00		-	215	-	232	-	294	-	231	-	239	-
756.73		395	353		343		301		301		251	
774.92		567	494		458		397		397		312	
793.10			540		495		423		423		335	
811.28					482		434		364		306	
829.46		513	425		368		315		315		287	
847.64			419									
865.83		386										
930.19		-	247	-	270	-	300	-	331	-	320	
962.86				-	326	-	371	-	384	-	264	
1187.65		400			426		388		369		313	

PHILOSOPHY OF EDUCATION

DECEMBER 1963 VOL 39 / NO 12

DECEMBER 1960 VOL 36 / NO 12

SID 62 929

APPENDIX A

TWT 77 BLOW 41 2ND RED.

CONFIG E40 T16 C2 S3 K I B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA - 217 BN 830

STA	PHI =	00	45	90	135	180	225	270	280	290	315
DEC =	3	3	3	3	3	3	3	3	3	3	3
371.46		109	98								
378.55		104		127	164	136	123				
398.00					391		176				
425.10		519					265				
443.82		677	634	539	385	269					645
459.10			631	547	393	269					
472.37		413	423	340	250	103					
479.28		- 727	- 733	- 741	- 743	- 759	- 742				
500.00		- 524	- 534	- 516	- 503	- 351					
516.37		- 235	- 237	- 255	- 223	- 239					
572.00		377	348	335	315	276					
756.73		538	476	447	415	350					
774.92			515	482	445	377					
793.10			455	424	390	343					
811.28		470	402	379	343	318					
829.46		384									
847.64		349									
865.83											
930.19		- 262	- 275	- 291	- 318	- 300					
962.86			- 335	- 351	- 358	- 270					
1187.65		393	403	371	362	323					

STA PHI = 22.5 67.5 112.5 157.5

SID APPENDIX A
62 929

TWT 77 BLOW 41 2ND RED.

CONFIG E40 T16 C2 S3 K 1 B

PREFESSIVE COEFFICIENTS (DELTAS) 1/9

SD 62 929

TWT 77 BLOW 41 2ND RED.

CONFIG E40 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA 1467 BN 1010

STA	PHI =	00	45	90	135	180	225	270	280	290	315
DEC =	3	3	3	3	3	3	3	3	3	3	3
371.46	- 248	-	498	-	498	-	498	-	498	-	498
378.55	- 143	243	373	484	1272	1062	1062	1062	1062	1062	1062
398.00	57	57	525	525	1066	1066	1066	1066	1066	1066	1066
425.10	92	160	460	782	944	944	944	944	944	944	944
443.82	172	395	673	819	819	819	819	819	819	819	819
459.10	101	74	214	443	547	547	547	547	547	547	547
472.37	- 923	- 966	- 926	- 850	- 798	- 849	- 849	- 849	- 849	- 849	- 849
479.28	- 780	- 933	- 825	- 607	- 495	- 425	- 425	- 425	- 425	- 425	- 425
500.00	-	-	-	-	-	-	-	-	-	-	-
516.37	- 444	- 461	- 444	- 153	5	5	5	5	5	5	5
572.00	-	-	-	-	-	-	-	-	-	-	-
756.73	277	113	72	224	341	341	341	341	341	341	341
774.92	450	177	178	439	596	596	596	596	596	596	596
793.10	233	262	514	689	689	689	689	689	689	689	689
811.28	253	196	443	612	612	612	612	612	612	612	612
829.46	287	238	164	404	569	569	569	569	569	569	569
847.64	212	212	212	212	212	212	212	212	212	212	212
865.83	168	168	168	168	168	168	168	168	168	168	168
930.19	- 423	- 463	- 452	- 292	- 176	- 176	- 176	- 176	- 176	- 176	- 176
962.86	-	- 496	- 492	- 280	- 142	- 142	- 142	- 142	- 142	- 142	- 142
1187.65	287	283	230	259	404	404	404	404	404	404	404

STA PHI = 22.5 67.5 112.5 157.5

DEC = 3 3 3 3
1323.83 - 653 - 669 - 585 - 594

SID 62 929
APPENDIX A

TWT 77 BLOW 42

CONFIG E40 T16 C2 S3 K 1 B

TUNNEL CONDITIONS

TIME	ALPH	BN	HO	PO	M	Q	TTO	RN	V	Y
DEC 1	2				1	3	1	1	3	1
81 -	19	887	3783	17422	1113	15121	5384	8261	11337	
111 -	19	978	3772	17435	1111	15053	5380	8241	11309	
144	392	1076	3761	17394	1110	15007	5372	8235	11297	
169	389	1153	3757	17374	1110	14988	5362	8245	11286	

TWT 77 BLOW 42

CONFIG E40 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

STA	PHI =	00	45	90	135	180	225	270	280	290	315
STA	DEC =	3	3	3	3	3	3	3	3	3	3
371.46		115	107	109							
378.55		93	90	135	121	145					
398.00							280				
425.10		316		295							
443.82		496	482	460	428	432					
459.10											465
472.37		340	345	340	339	309					
479.28		-	704	-	716	-	717	-	708	-	705 - 715
500.00		-	482	-	496	-	484	-	477	-	466 - 629
516.37											- 175
572.00		-	237	-	219	-	223	-	217	-	219 - 193
756.73			355		332	327	326	323			- 210
774.92			499	441	438	434	434				
793.10				478	475	468	468				
811.28				425	432	417	417				
829.46			421	382	374	384	384				
847.64			354								
865.83			316								
930.19		-	269	-	280	-	283	-	289	-	282
962.86			-	330	-	335	-	324	-	312	
1187.65			376	379	361	367					352

176

STA PHI = 22.5 67.5 112.5 157.5

DEC = 3

1323.83 DEC = 3 - 636 - 651 - 642 - 636

SID 62 929 APPENDIX A

TWT 77 BLOW 42

CONFIG E40 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA - 19 BN 978

STA	PHI =	00	45	90	135	180	225	270	280	290	290	315
DEC =		3	3	3	3	3	3	3	3	3	3	3
371.46		115			108					108		
378.55		94									134	
398.00			108		132	110						
425.10		311			307					268		
443.82		479	467	471	441							461
459.10			533	520	487							
472.37		343	362	347	337					304		
479.28		-	692	-	695	-	693	-	688	-	683	-
500.00		-	448	-	459	-	454	-	444	-	429	-
516.37												- 589
572.00		-	236	-	222	-	226	-	218	-	221	-
756.73			357	332	329	329	329	329	325			- 135
774.92		502	440	441	437	429						
793.10				487	479	479	479	479	479			
811.28				423	429	430	430	430	430			
829.46			431	383	390	372	372	372	372			
847.64		361										
865.83		317										
930.19		-	280	-	282	-	282	-	286	-	288	
962.86			-	-	334	-	335	-	326	-	316	
1187.65			378	379	359	359	366	366	353	353		

STA PHI = 22.5 67.5 112.5 157.5

DEC = 3 3 3 3
- 603 - 613 - 606 - 599

SID 62 929

APPENDIX A

TWT 77 BLOW 42

CONFIG E40 T16 C2 S3 K 1 8

PRESSURE COEFFICIENTS (ΔP)/Q

SID 62 929

TWT 77 BLOW 42

CONFIG E40 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA 389 PHI= 00 45 90 135 180 225 270 280 290 315

DEC= 3 3 3 3 3 3 3 3 3 3

151 137 101 101 128 128 260 260 260 260

246 246 420 420 420 420 663 663 663 663

368 261 557 557 762 762 822 822 822 822

365 365 547 547 718 718 756 756 756 756

18 18 201 340 473 473 495 495 495 495

- 776 - 752 - 732 - 732 - 727 - 725

- 286 - 524 - 522 - 543 - 550 - 550 -

- 257 - 232 - 285 - 233 - 203 - 203 -

- 252 - 298 338 354 354 359 359

334 334 392 452 492 492 509 509

414 414 490 550 550 550 568 568

362 289 316 427 483 483 510 510

379 239 379 434 434 446 446

216 865.83 355 382 384 384 378 378

22.5 PHI= 67.5 112.5 157.5

DEC= 3 3 3 3 3 3 3 3

- 609 - 661 - 662 - 597

179

SID 62 929

APPENDIX A

TWT 77 BLOW 43

CONFIG E40 T16 C2 S3 K 1 B

TUNNEL CONDITIONS

TIME	ALPH	BN	HO	PO	M	Q	TTO	RN	V
DEC 1	2				1	3	1	1	1
78 -	394	721	3877	16011	1199	16108	5373	8538	12005
107 -	190	807	3863	15958	1199	16052	5367	8523	11997
137	1012	897	3852	15987	1195	15983	5355	8522	11955
166	1465	986	3845	16249	1181	15870	5339	8536	11830

180

SID 62 929
APPENDIX A

TWT 77 BLOW 43

CONFIG E40 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA - 394 BN 721

STA PHI = 00 45 90 135 180 225 270 280 290 315

DEC = 3 3 3 3 3 3 3 3 3 3

371.46 104 96 127

378.55 102 125 171

398.00 156 460 251

425.10 653 460 251

443.82 825 740 567 360 271

459.10 533 531 399 254 55

472.37 533 531 399 254 55

479.28 - 603 - 626 - 636 - 666 - 700 - 673

500.00 - 478 - 481 - 470 - 501 - 267 - 164

516.37 - 179 - 193 - 254 - 187 - 201 - 164

572.00 - 284 159 229 255 217

756.73 442 418 406 385 297

774.92 442 418 406 385 297

793.10 518 477 429 331

811.28 482 441 380 304

829.46 533 445 396 330 287

847.64 449 410

865.83 410

930.19 - 155 - 173 - 198 - 234 - 232

962.86 - 248 - 281 - 294 - 192

1187.65 336 374 345 359 303

STA PHI = 22.5 67.5 112.5 157.5

DEC = 3 3 3 3

1323.83 - 523 - 595 - 590 - 582

SID 62 929

APPENDIX A

TWT 77 BLOW 43

CONFIG E40 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

STA	ALPHA	- 190	BN	807	
	STA	PHI =	00	45	90
		DEC =	3	3	3
371.46		112	99	130	
378.55				99	
398.00		160	192	140	181
425.10		511	420		280
443.82		660	624	541	416
459.10			634	567	451
472.37		461	443	397	320
479.28		-	582	-	599
500.00		-	408	-	411
516.37		-	194	-	201
572.00		-	310	-	219
756.73			453	-	237
774.92				-	252
793.10				-	227
811.28				-	
829.46				-	
847.64				-	
865.83				-	
930.19				-	
962.86				-	
1187.65				-	
	STA	PHI =	22.5	67.5	112.5
		DEC =	3	3	3
1323.83		-	473	-	514
				-	497
				-	509

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APPENDIX A

TWT 77 BLOW 43

CONFIG E40 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P1)/Q

ALPHA 1012 BN 897

STA	PHI =	00	45	90	135	180	225	270	280	290	315
DEC =	3	3	3	3	3	3	3	3	3	3	3
371•46	3	-	-	-	-	-	-	-	-	-	-
378•55	27	-	-	-	-	-	-	-	-	-	-
398.00	-	35	-	10	-	104	-	439	-	439	-
425•10	127	-	-	-	-	-	-	-	-	-	-
443•82	147	111	650	913	1020	-	-	-	-	-	-
459•10	209	597	771	862	-	-	-	-	-	-	-
472•37	-	49	139	412	551	616	-	-	-	-	-
479•28	-	683	-	701	-	692	-	652	-	623	-
500•00	-	238	-	571	-	606	-	499	-	443	-
516•37	-	242	-	247	-	320	-	143	-	50	-
572.00	-	294	231	178	-	110	-	27	-	312	-
756•73	354	269	295	359	430	-	-	-	-	-	-
774•92	354	305	387	531	621	-	-	-	-	-	-
793•10	-	316	387	497	571	-	-	-	-	-	-
811•28	290	287	323	448	537	-	-	-	-	-	-
829•46	238	208	-	-	-	-	-	-	-	-	-
847•64	-	-	-	-	-	-	-	-	-	-	-
865•83	-	-	-	-	-	-	-	-	-	-	-
930•19	-	277	-	284	-	259	-	174	-	111	-
962•86	-	-	387	-	337	-	220	-	144	-	-
1187.65	311	265	178	218	273	-	-	-	-	-	-

STA PHI = 22.5 67.5 112.5 157.5

DEC = 3 3 3 3
1323.83 - 493 - 471 - 580 - 501

SID 62 929

APPENDIX A

~~CONFIDENTIAL~~

TWT 77 BLOW 43

CONFIG E40 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA 1465 BN 986

STA PHI= 00 45 90 135 180 225 270 280 290 290 315

DEC= 3 3 3 3 3 3 3 3 3 3 3

371•46 - 158 - 457 - 492

378•55 - 119 58 185 67 1331

398•00 45 533 1105

425•10 77 157 495 830 1002

443•82 212 451 734 876

459•10 60 147 299 518 638

472•37 - 735 - 781 - 743 - 667 - 616 - 663

479•28 - 541 - 753 - 661 - 461 - 357 - 772 - 416

500•00 - 332 - 350 - 357 - 87 58 - 336 - 416

516•37 290 91 - 10 - 129 24

572•00 - 435 142 55 289 500

756•73 175 213 472 675

774•92 227 195 427 609

793•10 311 238 170 395 577

811•28 847•64 235

829•46 196

930•19 - 307 - 351 - 341 - 187 - 80

962•86 312 270 81 200 293

1187•65

STA PHI= 22.5 67.5 112.5 157.5

DEC= 3 3 3 3

1323•83 - 612 - 582 - 446 - 455

SID

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APPENDIX

A

929

TWT 777 BLOW 45

CONFIG E35 T16 C2 S3 K 1 B

TUNNEL CONDITIONS

	TIME	ALPH	BN	HO	PO	M	Q	TTO	RN	V
DEC 1	2			1	3	1	1	3	1	
75	197	1183	3793	17533	1.111	15138	5302	8450	11227	
114	200	1301	3785	17508	1.110	15103	5285	8468	11204	
152	603	1416	3770	17537	1.106	15005	5268	8466	11150	
191	603	1533	3744	17480	1.103	14877	5245	8451	11102	

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SID 62 929
APPENDIX A

TWT 77 BELOW 45

CONFIG E35 T16 C2 S3 K I B

PRESSURE COEFFICIENTS (DETAILED)

ALPHA 197 BN 1183

STAGE 2 - THE PRACTICAL ASPECTS

卷之三

268 138 389 533 628
306 1/2 115 210 493

310

$$= 383 - 529 = 541 - 564 = \underline{568} \quad - 689$$

~~401~~ 408 449 475 482
~~340~~ 304 333 348 351
~~401~~ 427 432 435 438
- - - - -

385 **426** **464** **470**
337 **377** **409** **424**

253 - 297 - 300 - 290 - 272 - 260

340 363 373 382 376

1323.83

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TWT 77 BLOW 45

CONE1G E35 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DETAILED)

SID 62 929
APPENDIX A

TWT 77 BLOW 45

CONFIG E35 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA 603 BN 1416

STA	PHI=	00	45	90	135	180	225	270	280	290	315
DEC=	3	3	3	3	3	3	3	3	3	3	3
371.46	67	91	49	22							
378.55	91	56	121	38	291						
398.00	193	403			917						
425.10	192	272	589	905	990						
443.82	287	593	774	815							
459.10	-	64	164	382	495	529					
472.37	-	786	776	767	769	760	-	763			
479.28	-	287	552	605	-	593	-	579			
500.00	-								-	687	
516.37	-	265	-	256	-	318	-	228	-	171	
572.00	-	288	297	333	341	349			-	301	-
756.73	313	388	441	498	531						
774.92											
793.10	398	477	561	600							
811.28		336	428	497	539						
829.46	271	282	369	433	491						
847.64	226										
865.83	189										
930.19	-	321	-	354	-	314	-	262	-	240	
962.86	-	424	-	388	-	388	-	317	-	274	
1187.65	326	350	383	383	380	382					

STA PHI= 22.5 67.5 112.5 157.5

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DEC= 3 3 3 3 3 3 3 3 3 3 3 3

1323.83 - 650 - 663 - 702 - 620

TWT 77 BLOW 45

CONFIG E35 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA	603	BN	1533	STA	PHI=	00	45	60	135	180	225	270	280	290	290	315
371.46	74			378.55	102				51							23
398.00		62		398.00		198			126	42						292
425.10				425.10			196		413							945
443.82				443.82			196	291	572	908						989
459.10				459.10			304	585	767							807
472.37				472.37	-	60	173	371	492							521
479.28				479.28	-	792	-	778	-	770	-	772	-	765	-	767
500.00				500.00	-	297	-	553	-	605	-	599	-	581	-	222
516.37				516.37	-	267	-	258	-	319	-	230	-	174	-	302
572.00				572.00	-	289	298		336		349		359			- 276
756.73				756.73												
774.92				774.92												
793.10				793.10												
811.28				811.28												
829.46				829.46												
847.64				847.64												
865.83				865.83												
930.19				930.19												
962.86				962.86												
1187.65				1187.65												

SID 62 929
APPENDIX A

STA PHI= 22.5 67.5 112.5 157.5

DEC= 3 3 3 3 3
1323.83 - 652 - 665 - 706 - 620

TWT 77 BLOW 46

CONFIG E35 T16 C2 S3 K I B

TUNNEL CONDITIONS

TIME	ALPH	BN	HO	PO	M	Q	TTO	RN	V
DEC 1	2			1	3	1	1	3	1
83	197	905	3776	17524	1107	15045	5305	8402	11205
123	197	1026	3766	17520	1106	14989	5290	8410	11173
164	601	1148	3768	17584	1103	14970	5278	8434	11138
202	600	1263	3734	17499	1100	14811	5256	8403	11088

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APPENDIX A

TWT 77 BLOW 46

CONFIG E35 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA 197 BN 905

STA PHI = 00 45 90 135 180 225 270 280 290 315

DEC = 3 3 3 3 3 3 3 3 3 3

371.46 276 259 255

378.55 275 263 239 250

398.00 271 431 512

425.10 382 518 603 700 763

443.82 454 515 601 684 715

459.10 235 318 372 442 460

472.37 - 758 - 768 - 765 - 768 - 765 - 770

479.28 - 519 - 586 - 598 - 606 - 623

500.00 - 337 - 292 - 297 - 270 - 252 40 - 267

516.37 - 64 - 195

572.00 - 376 318 330 338 341

756.73 421 423 445 4= 480

774.92 128 454 490 520 661 800 644 2 16

793.10 405 439 466 480

811.28 377 353 378 413 435

829.46 319 278

847.64 930.19 - 291 - 293 - 288 - 277 - 270

865.83 364 372 375 382 376

962.86 - 345 - 347 - 329 - 314

1187.65

STA PHI = 22.5 67.5 112.5 157.5

DEC = 3 3 3 3
1323.83 - 616 - 634 - 623 - 610

810 62 929

APPENDIX

TWT 77 BLOW 46

CONFIG E35 T16 C2 S3 K I B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA	197	BN	1026	225	270	280	290	315
STA	PHI=	00	45	90	135	180	225	270
	DEC=	3	3	3	3	3	3	3
371.46	274	-	-	-	-	-	-	-
378.55	276	269	264	235	235	248	259	259
398.00	270	509	595	694	711	711	748	748
425.10	373	506	581	694	715	715	720	720
443.82	450	506	581	694	715	715	748	748
459.10	509	509	595	694	711	711	748	748
472.37	223	303	379	448	447	447	479	479
479.28	-	755	748	747	750	750	746	746
500.00	-	495	556	573	581	594	-	-
516.37	-	320	293	298	273	251	-	-
572.00	-	378	315	332	342	345	-	-
756.73	428	422	448	472	472	479	-	-
774.92	793.10	456	486	524	524	530	-	-
811.28	829.46	407	443	471	471	484	-	-
847.64	865.83	374	358	387	418	439	-	-
930.19	926.83	314	282	289	289	281	267	267
962.86	930.19	-	289	297	289	281	-	-
1187.65	962.86	-	350	351	351	333	315	315
	1187.65	362	371	374	383	383	377	377
STA	PHI=	22.5	67.5	112.5	157.5			
	DEC=	3	3	3	3	3	3	3
1323.83	-	588	-	603	-	596	-	581

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APPENDIX A

TWT 77 BLOW 46

CONFIG E35 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

STA	ALPHA	601	BN	1148	225	270	280	290	315
	PHI =	00	45	90	135	180			
	DEC =	3	3	3	3	3	3	3	3
371.46		237	214	214	183				
378.55		250	258	202	168	323			
398.00		373	352	389	729	915	1110		
425.10				414	666	734	761		
443.82				65	238	407	477	493	
459.10				-	823	790	811	801	797
472.37				-	490	616	694	654	-
479.28				-	-	-	-	-	798
500.00				-	-	-	-	-	-
516.37				-	372	-	335	-	-
572.00				-	324	318	320	315	321
756.73				-	336	395	425	483	515
774.92				-		414	470	557	598
793.10				-		371	432	498	540
811.28				-		310	334	367	435
829.46				-		263			484
847.64				-		227			
865.83				-					
930.19				-	328	-	327	-	241
962.86				-		417	-	385	-
1187.65				-		348	361	383	377
	STA	PHI =	22.5	67.5	112.5	157.5			
		DEC =	3	3	-3	3			
			-646	-663	-701	-618			

TWT 77 BLOW 46

CONF16 E35 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA	600	BN	1263	45	90	135	180	225	270	280	290	315
STA	PHI=			3	3	3	3	3	3	3	3	3
		DEC#		3	3	3	3	3	3	3	3	3
371.46		243		213		203		177		173		
378.55		255		261		508				311		
398.00		367				729		912		1120		
425.10		341		387								387
443.82				405		664		731		758		
459.10				60		24.3		404		472		
472.37				-		837	-	794	-	805	-	
479.28				-		491	-	625	-	791	-	
500.00				-		-		699	-	801	-	
516.37				-		-		-		-		
572.00				-		-		-		-		
756.73				-		-		-		-		
774.92				-		-		-		-		
793.10				-		-		-		-		
811.28				-		-		-		-		
829.46				-		-		-		-		
847.64				-		-		-		-		
865.83				-		-		-		-		
930.19				-		-		-		-		
962.86				-		-		-		-		
1187.65				-		-		-		-		

STA PHI= 22.5 67.5 112.5 157.5

STA PHI= 3 3 3 3
DEC= - 646 - 667 - 703 - 620

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TWT 77 BLOW 47

CONFIG E35 T16 C2 S3 K 1 B

TUNNEL CONDITIONS

TIME	ALPH	BN	HO	PO	M	Q	TTO	RN	V
DEC 1	2				1	3	1	3	1
78 - 13	1181	3796	17551	1110	15145	5322	8412	11246	
117 - 11	1298	3775	17518	1107	15038	5314	8381	11213	
155	392	1411	3774	17482	1109	15046	5302	8405	11212
193	387	1526	3757	17445	1107	14962	5281	8408	11175

195

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APPENDIX A

TWT 77 BLOW 47

CONFIG E35 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA	-	13	BN	1181							
STA	PHIE	00	45	90	135	180	225	270	280	290	315
	DEC=	3	3	3	3	3	3	3	3	3	3
371.46		294									
378.55		278									
398.00		254									
425.10		409									
443.82		603	586	572	558	567					
459.10		606	609	609	595	593					
472.37		392	395	389	395	385					
479.28		- 744	- 760	- 762	- 757	- 753	- 767				
500.00		- 596	- 602	- 603	- 594	- 611					
516.37											
572.00		- 292	- 284	- 288	- 286	- 280					
756.73		425	334	334	336	339					
774.92		503	448	450	449	447					
793.10		486	491	491	491	490					
811.28		430	447	445	445	435					
829.46		438	394	377	394	403					
847.64		362									
865.83		325									
930.19		- 281	- 271	- 279	- 283	- 283					
962.86		-	341	- 344	- 335	- 326					
1187.65		395	396	380	389	377					

STA PHI= 22.5 67.5 112.5 157.5

DEC= 3 3 3 3
1323.83 - 645 - 657 - 646 - 644

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TWT 77 BLOW 47

CONFIG E35 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTAP) / Q

ALPHA = 11 BN 1298

STA	PHI =	00	45	90	135	180	225	270	280	290	290	315
DEC =	3	3	3	3	3	3	3	3	3	3	3	3
371.46	291	290	279	279	279	279	279	279	279	279	279	279
378.55	268	268	268	265	265	265	265	265	265	265	265	265
398.00	404	399	399	399	399	399	399	399	399	399	399	399
425.10	587	586	577	557	557	557	557	557	557	557	557	554
443.82	608	600	584	584	584	584	584	584	584	584	584	577
459.10	402	383	376	389	389	389	389	389	389	389	389	381
472.37	-	732	-	733	-	737	-	733	-	728	-	731
479.28	-	561	-	564	-	566	-	560	-	568	-	697
500.00	-	-	-	-	-	-	-	-	-	-	-	-
516.37	-	-	-	-	-	-	-	-	-	-	-	-
572.00	-	293	-	283	-	291	-	286	-	281	-	181
756.73	422	336	335	335	335	335	335	335	335	337	340	340
774.92	501	451	450	450	450	450	450	447	447	445	445	445
793.10	489	494	494	494	494	494	494	491	491	487	487	487
811.28	432	440	440	440	440	440	440	443	443	444	444	444
829.46	436	389	393	405	405	405	405	398	398	398	398	398
847.64	363	322	322	322	322	322	322	322	322	322	322	322
865.83	-	-	-	-	-	-	-	-	-	-	-	-
930.19	-	269	-	279	-	285	-	286	-	281	-	281
962.86	-	343	-	343	-	345	-	337	-	328	-	328
1187.65	393	396	379	379	379	379	379	387	387	376	376	376
STA	PHI =	22.5	67.5	112.5	112.5	112.5	112.5	112.5	112.5	112.5	112.5	112.5
1323.83	DEC =	3	3	3	3	3	3	3	3	3	3	3

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TWT 77 BLOW 47

CONFIG E35 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

STA	ALPHA	392	BN	1411									
					DEC=	3	3	3	3	3	3	3	3
	371.46	00	45	90	135	180	225	270	280	290	290	315	3
	378.55	264	271	248		226							
	398.00		270	244	206	250							
	425.10	359		440		717							
	443.82	371	452	627	847	915							
	459.10		448	628	741	770							
	472.37	137	267	398	471	479							
	479.28	-	777 - 758	- 759	- 769	- 763 - 762							
	500.00	-	473 - 567	- 614	- 617	- 616							
	516.37		343 - 311	- 318	- 267	- 231							
	572.00	-	343 - 314	334	339	342							
	756.73	349											
	774.92	372	411	452	486	503							
	793.10		439	497	545	572							
	811.28		380	434	485	516							
	829.46	333	332	380	430	458							
	847.64	287											
	865.83	243											
	930.19	-	300 - 312	- 294	- 274	- 258							
	962.86		- 300 - 380	- 368	- 328	- 301							
	1187.65	357	375	394	392	390							

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TWT 777 BLOW 47

CONFIG E35 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA	387	BN	1526	STA	PHI =	00	45	90	135	180	225	270	280	290	315
				DEC =	3	3	3	3	3	3	3	3	3	3	3
371.46	266			378.55	271				252			227			
398.00				425.10	356				276	245	206	245			
443.82				459.10	370	455			431	629	854	923			448
472.37				479.28	134	262			447	632	750	771			
479.28				500.00	-	786 -	757 -	761 -	394	483	492	767 -	765		
516.37				516.37	-	477 -	565 -	616 -	617 -	617 -	617 -	617 -	617 -	- 721	
572.00				572.00	-	343 -	313 -	317 -	270 -	270 -	270 -	270 -	270 -	- 279	- 306
756.73				756.73		344	316	335	340	340	340	340	340	343	
774.92				774.92		372	413	454	485	485	485	485	485	485	
793.10				793.10		442	492	544	572	572	572	572	572	572	
811.28				811.28		381	437	490	508	508	508	508	508	508	
829.46				829.46		329	341	389	432	432	432	432	432	455	
847.64				847.64		279									
865.83				865.83		247									
930.19				930.19	-	297 -	310 -	297 -	272 -	272 -	253	253	253	253	
962.86				962.86		-	383 -	369 -	329 -	329 -	301	301	301	301	
1187.65				1187.65		356	375	393	394	394	391	391	391	391	
						STA	PHI =	22.5	67.5	112.5	157.5				
						DEC =	3	3	3	3	3				
						1323.83	-	609 -	670 -	665 -	601				

SID 62 929

APPENDIX A

TWT 77 BLOW 48

CONFIG E35 T16 C2 S3 K 1 B

TUNNEL CONDITIONS

TIME	ALPH	BN	HO	PO	M	Q	TTO	RN	V
DEC 1	2		1		3	1	1	3	1
69 -	407	831	3766	17585	1.102	14959	5338	8306	11197
97 -	198	915	3775	17537	1.106	15030	5338	8330	11231
127	1006	1006	3773	17747	1.096	14936	5332	8325	11144
152	1478	1081	3764	18210	1.074	14694	5327	8287	10950

200

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APPENDIX A

TWT 77 BLOW 48

CONFIG E35 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA = 407

BN

831

STA PHI = 00 45 90 135 180 225 270 280 290 290 315

DEC= 3 3 3 3 3 3 3 3 3 3 3

371•46 259 227 249 269

378•55 398•00 796 204 236 270 298

425•10 443•82 937 869 636 444 363

459•10 459 458 393 640 441 321

472•37 479•28 788 - 833 - 829 - 819 - 845 - 836

500•00 - 692 - 704 - 706 - 647 - 569 - 785

516•37 - 250 - 271 - 323 - 318 - 334 - 244

572•00 - 452 340 343 330 293 - 286 - 291

756•73 537 483 455 422 354

774•92 793•10 541 495 446 377

811•28 829•46 481 446 392 347

847•64 516 423 391 347 321

865•83 420 380

930•19 - 253 - 273 - 296 - 319 - 309

962•86 406 426 395 383 341

STA PHI = 22.5 67.5 112.5 157.5

DEC= 3 3 3 3 3 3 3 3 3 3

1323.83 - 716 - 766 - 794 - 739

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TWENTY-SEVEN BLOW 48

CONFIG_E35_T16_C2_S3_K_I_B

PRESSURE COEFFICIENTS (DELTA P) / Q

ALPHA - 198 BN 915 STA PHI = 00 45 90 135 180 225 270 280 290 290 315

STA	PHI =	22.5	67.5	112.5	157.5
	DEC =	3	3	3	3
		- 636 -	- 685 -	- 652 -	- 644 -
	23.83				

EE 1323 - 8

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APPENDIX

TWT 77 BLOW 48

CONFIG E35 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA	1478	BN	1081	315						
STA	PHI =	00	45	90	135	180	225	270	280	290
	DEC =	3	3	3	3	3	3	3	3	3
371.46	-	135	-	-	-	-	-	-	-	-
378.55	-	196	-	-	270	-	-	-	-	-
398.00	-	439	555	814	1143	1238	1027	1027	1027	1027
425.10	-	312	-	577	-	-	-	-	-	-
443.82	-	277	332	492	772	924	-	-	-	-
459.10	-	272	415	665	802	802	-	-	-	-
472.37	-	11	135	231	438	540	-	-	-	-
479.28	-	924	-	926	-	854	-	804	-	851
500.00	-	823	-	935	-	839	-	623	-	512
516.37	-	595	-	595	-	430	-	145	10	-
572.00	-	349	58	48	48	170	170	310	310	-
756.73	-	464	116	142	142	415	415	580	580	-
774.92	-	227	182	232	232	494	494	673	673	-
793.10	-	334	218	142	142	388	388	594	594	-
811.28	-	247	200	-	-	-	-	-	-	-
829.46	-	930.19	-	417	-	456	-	457	-	296
847.64	-	962.86	-	469	-	469	-	495	-	175
865.83	-	1187.65	-	299	289	237	-	285	-	144
	STA	PHI =	22.5	67.5	112.5	157.5				

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TWT 77 BLOW 49

CONFIG E35 T16 C2 S3 K 1 B

TUNNEL CONDITIONS

TIME	ALPH	BN	HO	PO	M	Q	TTO	RN	V
DEC 1	2			1	3	1	1	3	1
79 - 9	850	3786	18683	1057	14623	5344	8277	10833	
117 - 9	965	3781	18658	1057	14602	5339	8276	10827	
156	400	1083	3767	18621	1056	14536	5324	8275	10800
196	397	1201	3742	18601	1051	14392	5310	8240	10747

205

SID 62 929
APPENDIX A

TWT 777 BLOW 49

CONFIG E35 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA	- 9	BN	850	800	750	700	650	600	550	500	450	400	350	300	250	200	180	135	90	45	00	PHI=	STA				
DEC=	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
371.46	249	252	252	252	252	252	252	252	252	252	252	252	252	252	252	252	252	252	252	252	252	252	252	252	252	252	
378.55	243	226	226	226	226	226	226	226	226	226	226	226	226	226	226	226	226	226	226	226	226	226	226	226	226	226	
398.00	216	362	362	362	362	362	362	362	362	362	362	362	362	362	362	362	362	362	362	362	362	362	362	362	362	362	
425.10	384	554	556	556	556	556	556	556	556	556	556	556	556	556	556	556	556	556	556	556	556	556	556	556	556	556	
443.82	578	572	573	573	573	573	573	573	573	573	573	573	573	573	573	573	573	573	573	573	573	573	573	573	573	573	
459.10	572	340	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	
472.37	328	851	851	851	851	851	851	851	851	851	851	851	851	851	851	851	851	851	851	851	851	851	851	851	851	851	
479.28	500.00	679	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	
516.37	572	362	355	355	355	355	355	355	355	355	355	355	355	355	355	355	355	355	355	355	355	355	355	355	355	355	
572.00	479	391	391	391	391	391	391	391	391	391	391	391	391	391	391	391	391	391	391	391	391	391	391	391	391	391	
756.73	533	478	478	478	478	478	478	478	478	478	478	478	478	478	478	478	478	478	478	478	478	478	478	478	478	478	
774.92	793.10	506	498	498	498	498	498	498	498	498	498	498	498	498	498	498	498	498	498	498	498	498	498	498	498	498	
811.28	449	449	449	449	449	449	449	449	449	449	449	449	449	449	449	449	449	449	449	449	449	449	449	449	449	449	
829.46	443	392	402	394	394	394	394	394	394	394	394	394	394	394	394	394	394	394	394	394	394	394	394	394	394	394	
847.64	363	314	314	314	314	314	314	314	314	314	314	314	314	314	314	314	314	314	314	314	314	314	314	314	314	314	
865.83	314	371	372	364	371	371	371	371	371	371	371	371	371	371	371	371	371	371	371	371	371	371	371	371	371	371	
930.19	-	334	-	338	-	337	-	337	-	337	-	337	-	337	-	337	-	337	-	337	-	337	-	337	-	337	-
962.86	-	383	-	389	-	389	-	389	-	389	-	389	-	389	-	389	-	389	-	389	-	389	-	389	-	389	-
1187.65	-	371	-	372	-	364	-	371	-	371	-	371	-	371	-	371	-	371	-	371	-	371	-	371	-	371	-

STA PHI= 22.5 67.5 112.5 157.5

STA PHI= 22.5 67.5 112.5 157.5
DEC= 3 3 3 3
1323.83 - 690 - 695 - 696 - 687SID 62 929
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TWT 777 BLOW 49

CONFIG E35 T16 C2 S3 K I B

PRESSURE COEFFICIENTS (DELTA P)/Q

STA	ALPHA = 9 BN	965	00 45 90 135 180 225 270 280 290 315
STA	PHI = 00 3 3 3 3 3 3 3 3 3	BN	251 232 211 226 222 232 242 378.55 398.00 370 355 355 352 425.10 443.82 565 559 538 525 528 459.10 472.37 331 582 571 552 544 479.28 500.00 516.37 479.28 500.00 516.37 522 522 522 572.00 576.73 535 470 394 392 394 390 774.92 793.10 477 477 477 477 473 811.28 829.46 499 505 504 504 491 847.64 865.83 360 316 930.19 962.86 330 334 336 346 342 1187.65 370 373 366 376 369

STA PHI = 22.5 67.5 112.5 157.5

STA	PHI = 22.5 67.5 112.5 157.5	DEC = 3 3 3 3	3 3 3 3
1323.83	- 662 - 669 - 664 - 662		

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A

TWT 77 BLOW 49

CONFIG E35 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA	400	BN	1083									
STA	PHI =	00	45	90	135	180	225	270	280	290	315	3
371.46	DEC =	3	3	3	3	3	3	3	3	3	3	3
378.55		228	218	218	218	218	218	218	218	218	218	187
398.00		239	237	196	176	176	176	176	176	176	176	228
425.10		322	322	425	425	425	425	425	425	425	425	790
443.82		332	388	618	856	856	856	856	856	856	856	901
459.10		409	409	605	700	700	700	700	700	700	700	716
472.37		82	214	348	411	411	411	411	411	411	411	426
479.28		-	874	-	860	-	874	-	882	-	875	-
500.00		-	579	-	661	-	729	-	728	-	723	-
516.37		-	419	-	388	-	390	-	336	-	300	-
572.00		-	380	362	392	417	427	427	427	427	427	-
756.73		387	435	484	529	529	529	529	529	529	529	-
774.92		-	387	435	484	513	562	562	562	562	562	549
793.10		-	448	448	448	493	493	493	493	493	493	590
811.28		-	393	393	448	493	493	493	493	493	493	511
829.46		331	334	371	433	433	433	433	433	433	433	465
847.64		279										
865.83		236										
930.19		-	342	-	370	-	357	-	330	-	315	
962.86		333	357	383	386	386	386	386	386	386	386	342
1187.65												
	STA	PHI =	22.5	67.5	112.5	157.5						

1323.83

DEC = 3 3 3 3

- 659 - 740 - 737 - 675

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TWT 77 BLOW 49

CONFIG E35 T16 C2 S3 K I B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA 397 BN 1201

STA	PHI =	00	45	90	135	180	225	270	280	290	315
DEC =	3	3	3	3	3	3	3	3	3	3	3
371.46	234	238	239	198	171	221					
378.55							183				
398.00											
425.10		311			416		767				
443.82		329	398	614	852	910					
459.10			402	602	702	717					
472.37		72	200	343	417	434					
479.28		- 887	- 864	- 878	- 888	- 882					
500.00		- 581	- 663	- 733	- 729	- 734					
516.37									- 241	- 835	
572.00		- 423	- 391	- 394	- 342	- 306			- 350	- 380	
756.73		383	365	394	417	428					
774.92		389	436	487	528	549					
793.10			455	512	562	587					
811.28			395	446	490	510					
829.46		334	345	391	425	461					
847.64		281									
865.83		237									
930.19		- 355	- 383	- 359	- 332	- 320					
962.86		- 437	- 421	- 379	- 349						
1187.65		335	358	381	387	397					
STA PHI =	22.5	67.5	112.5	157.5							
DEC =	3	3	3	3							
1323.83	- 661	- 745	- 738	- 681							

SID 62 920

APPENDIX A

TWT 77 BLOW 50

CONFIG E35 T16 C2 S3 K I B

TUNNEL CONDITIONS

TIME	ALPH	BN	HO	PO	M	Q	TTO	RN	V
DEC 1	2			1	3	1	1	3	1
80	201	730	3773	18711	1053	14529	5338	8255	10790
119	203	849	3778	18695	1055	14565	5331	8282	10798
158	604	965	3774	18744	1052	14521	5317	8297	10760
197	604	1082	3744	18658	1049	14378	5298	8265	10717

TWT 77 BLOW 50

CONFIG E35 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

STA	PHI =	00	45	90	135	180	225	270	280	290	315
ALPHA	201	BN	730								
DEC=	3	3	3	3	3	3	3	3	3	3	3
371.46	240	248	228	210	189	205					
378.55											
398.00											
425.10											
443.82											
459.10											
472.37											
479.28											
500.00											
516.37											
572.00											
756.73											
774.92											
793.10											
811.28											
829.46											
847.64											
865.83											
930.19											
962.86											
1187.65											

SID 82
APPENDIX A
929

STA PHI = 22.5 67.5 112.5 157.5

DEC= 3 3 3 3

1323.83 - 675 - 712 - 704 - 685

TWT 77 BLOW 50

CONFIG E35 T16 C2 S3 K 1 B
PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA 203 BN 849

STA PHI= 00 45 90 135 180 225 270 280 290 315

	DEC=	3	3	3	3	3	3	3	3
371.46	243	228	218	195	180	225	270	280	290
378.55	245	251	319	379	395	442	459	459	449
398.00									
425.10									
443.82									
459.10									
472.37									
479.28									
500.00									
516.37									
572.00									
756.73									
774.92									
793.10									
811.28									
829.46									
847.64									
865.83									
930.19	-	-	-	-	-	-	-	-	-
962.86									
1187.65									

STA PHI= 22.5 67.5 112.5 157.5

	DEC=	3	3	3	3
1323.83	-	644	-	681	-

213 205 495 751 686 404 856 - 854 - 807 - 231 - 331 - 353

413 515 549 480 428

321 330 363 383

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INT 77 BLOW 50

CONVERGENCE TESTS FOR SPECTRAL METHODS 18

EFFECTIVE COEFFICIENTS (ΔP)/ α

ALPHA	604	BN	965								
STA	PHI =	00	45	90	135	180	225	270	280	290	315
	DEC =	3	3	3	3	3	3	3	3	3	3
371.46	203	134									
378.55	216	170									
398.00	333	166	145	323							
425.10	316	528	1082								
443.82	364	708	857	887							
459.10	373	605	662	704							
472.37	33	190	337	404	433						
479.28	- 922	- 896	- 922	- 908	- 893	- 902					
500.00	- 613	- 727	- 803	- 756	- 730						
516.37											
572.00	- 460	- 416	- 425	- 325	- 266						
756.73	364	353	374	412	432						
774.92	364	414	463	530	567						
793.10											
811.28											
829.46	312	329	357	435	478						
847.64	261										
865.83	219										
930.19	- 374	- 382	- 374	- 335	- 304						
962.86		- 471	- 434	- 362	- 317						
1187.65	331	343	366	371	395						
STA	PHI =	22.5	67.5	112.5	157.5						

SID 62 9
APPENDIX

CONF 16 E35 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

STA	PHI=	604	BN	1082							
	DEC=	3	3	3	3	3	3	3	3	3	3
371.46		201	163		125						
378.55		209	195	162	142	320					
398.00			326	518		1101					
425.10			314	354	710	857	888				
443.82				374	606	660	704				
459.10											354
472.37		26	190	339	409	432					
479.28		- 938	- 900	- 927	- 914	- 897	- 907				
500.00		- 621	- 730	- 806	- 762	- 739					
516.37											
572.00		- 462	- 418	- 425	- 327	- 269					
736.73		366	357	378	414	436					
774.92		363	418	466	534	570					
793.10			424	490	574	611					
811.28											
829.46		312	326	378	434	470					
847.64		262									
865.83		219									
930.19		- 376	- 398	- 381	- 338	- 308					
962.86			- 476	- 435	- 364	- 322					
1187.65		333	345	367	370	397					
STA	PHI=	22.5	67.5	112.5	157.5						
	DEC=	3	3	3	3						
1323.83		- 684	- 715	- 740	- 683						

TWT 777 BLOW 51
CONFIG E40 T16 C2 S3 K 1 B

TUNNEL CONDITIONS

TIME	ALPH	BN	HO	PO	M	O	TTO	RN	V
DEC 1	2			1	3	1	1	3	1
76	190	735	3786	18610	1061	14653	5382	8206	10897
113	194	848	3780	18610	1059	14614	5373	8206	10876
151	597	962	3767	18696	1053	14503	5362	8194	10810
192	592	1085	3757	18619	1054	14477	5341	8216	10800

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SID 62 929
APPENDIX A

TWT 77 BLOW 51

CONF 16 E40 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA	190	BN	735								
STA	PHI=	00	45	90	135	180	225	270	280	290	315
	DEC=	3	3	3	3	3	3	3	3	3	3
371.46	51	65	40	40	40	40	40	40	40	40	40
378.55											
398.00		74	92	46	46	46	46	46	46	46	46
425.10		211	317	436	436	436	436	436	436	436	436
443.82		270	341	481	578	614	614	614	614	614	614
459.10		364	498	583	609	609	609	609	609	609	609
472.37		91	217	295	372	384	384	384	384	384	384
479.28		- 807	- 827	- 825	- 821	- 817	- 817	- 817	- 817	- 817	- 817
500.00		- 452	- 559	- 586	- 608	- 616	- 616	- 616	- 616	- 616	- 616
516.37											
572.00		- 313	- 288	- 308	- 295	- 279	- 279	- 279	- 279	- 279	- 279
756.73		328	347	377	401	405	405	405	405	405	405
774.92		412	426	469	500	507	507	507	507	507	507
793.10		442	490	522	522	536	536	536	536	536	536
811.28		387	422	458	458	468	468	468	468	468	468
829.46		336	353	383	403	419	419	419	419	419	419
847.64		289									
865.83		264									
930.19		- 346	- 355	- 346	- 332	- 332	- 332	- 332	- 332	- 332	- 332
962.86		- 386	- 392	- 392	- 377	- 377	- 377	- 377	- 377	- 377	- 377
1187.65		319	344	360	377	379	379	379	379	379	379

STA PHI= 22.5 67.5 112.5 157.5

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1323.83

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APPENDIX A

TWT 77 BELOW 51

PRESSURE COEFFICIENTS (DELTA P)/9

PRESSURE COEFFICIENTS (DELIA P1/Q)

ALPHA 597 BN 962 STA PH1= 00 45 90 135 180 225 270 280 290 315 3 3 3 3 3 3 3 3 3 3

756.73	271	329	375	421	445
774.92	328	403	473	542	577
793.10	411	494	572	613	
811.28	350	416	496	530	
829.46	271	299	366	432	476
847.64	229				
865.83	186				
930.19	-	376	-	384	-
962.86	-	480	-	441	-
1187.65	314	339	369	375	400

1323.83 STA PH1# 22.5 67.5 112.5 157.5 DEC= - 680 - 715 - 739 - 680 3 3 3 3

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SID 62 929

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ECONOMIC GROWTH AND INEQUALITY 18

ADDRESS THE COEFFICIENTS IDEALLY

WADA 1085

ESTATE PLANNING 80

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88,00

225 947 879 567 239 567 3182

2-37 = **109** **103** **332** **439** **456**

780

282 — 13

66.73 **267** **420** **442**

404 577 610 33, 10 494

9.46 277 289 373 421 479

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1.63 313 331 370 3/3

ST_A PHI = 22.5 67.5 112.5 157.5

DEC 30 1968

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TWT 77 BLOW 52

CONFIG E40 T16 C2 S3 K 1 B

TUNNEL CONDITIONS

TIME	ALPH	BN	HO	PO	M	Q	TTO	RN	V	
DEC 1	2				1	3	1	1	3	1
72 -	13	642	3761	18588	1056	14514	5380	8149	10858	
110 -	14	757	3783	18597	1060	14639	5379	8205	10893	
149	394	874	3777	18588	1060	14609	5368	8212	10875	
189	389	992	3760	18535	1058	14527	5353	8203	10847	

220

~~CONFIDENTIAL~~

SID 62 929
APPENDIX A

TWT 77 BLOW 52

CONFIG E40 T16 C2 S3 K 1 8

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA = 13 BN 642

STA	PHI =	00	45	90	135	180	225	270	280	290	315
	DEC=	3	3	3	3	3	3	3	3	3	3
371.46		53									
378.55		32									
398.00			26								
425.10				211							
443.82					396						
459.10						467					
472.37							296				
479.28								780			
500.00									794		
516.37										783	
572.00											782
756.73											- 785
774.92											
793.10											
811.28											
829.46											
847.64											
865.83											
930.19											
962.86											
1187.65											
STA	PHI =	22.5	67.5	112.5	157.5						
	DEC=	3	3	3	3						

STA PHI = 22.5 67.5 112.5 157.5

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SID 62

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APPENDIX

A

TWENTY SEVEN BLOW 52

CONFIG E40 T16 C2 S3 K I B

PRESSURE COEFFICIENTS (DELTAP)/Q

SID 62 929

TWENTY SEVEN BELOW 52

CONFIG E40 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA 394 BN 874

371.46	57	28	
378.55	76	54	
398.00	63	122	64 225
425.10	211	386	674
443.82	213	513	833
459.10	311	726	723
472.37	317	511	448
	27	302	412
479.28	163		
500.00			- 722
			290
			-
			290

223

	- 225	- 295
6.37		
12.00	- 327 -	306 -
66.73	289	331
74.92	356	407
73.10	425	475
11.28	367	421
9.46	297	314
17.64	376	425
		255

55.83	215		
30.19	-	357	-
62.86	-	426	-
77.65	310	339	370
			382
			390
			320
			342

THE JOURNAL OF CLIMATE

STA	PHI =	22.5	67.5	112.5	157.5			
	DEC =	3	3	3	3			
'3-83	-	648	-	720	-	722	-	664

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TUT 77 BLOW 52

CONFIG E40 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (ΔP)/C

ALPHA	389	BN	992								
STA	PHI=	00	45	90	135	180	225	270	280	290	315
	DEC=	3	3	3	3	3	3	3	3	3	3
371.46		56									
378.55		72									
398.00		67									
425.10		200									
443.82		216									
459.10		330									
472.37		- 24	151								
479.28		- 861	- 846								
500.00		- 388	- 591	- 615							
516.37		- 327	- 304	- 347	- 298						
572.00		- 286	332	380	417						
756.73		349	406	477	528						
774.92		419	499	557	582						
793.10		366	427	478	507						
811.28		294	313	377	421	457					
829.46		248									
847.64		865.83	212								
930.19		- 360	- 385	- 354	- 333	- 320					
962.86		-	- 424	- 419	- 376	- 343					
1187.65		307	339	370	384	393					

SID 62 929
APPENDIX A

TWT 77 BLOW 53 2ND REDUCTION

CONF IG E40 T16 C2 S3 K 1 B

TUNNEL CONDITIONS

TIME	ALPH	BN	HO	PO	M	Q	TTO	RN	V
DEC 1	2		1	3	1	1	1	1	1
79 -	28	592	3824	15710	1203	15914	5382	8406	12047
118 -	28	708	3844	15734	1206	16013	5379	8457	12065
159	375	832	3815	15677	1203	15874	5370	8410	12032
198	371	948	3792	15599	1202	15775	5353	8395	12007

225.

SID 62 929
APPENDIX A

TWT 77 BLOW 53 2ND RED.

CONFIG E40 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA - 28 BN 592

STA PHI = 00 45 90 135 180 225 270 280 290 315

	DEC=	3	3	3	3	3	3	3	3	3
371.46	125	121								
378.55	115									
398.00	123	164	133	168						
425.10	363	342								
443.82	514	502	483	450	414					
459.10	546	523	498	472						
472.37	402	408	374	361	334					
479.28	-	578	-	595	-	593	-	588	-	598
500.00	-	398	-	410	-	402	-	400	-	384
516.37									-	116
572.00	-	196	-	187	-	192	-	181	-	175
756.73	263	226	222	230	230	231				
774.92	441	393	392	391	391	381				
793.10		465	462	459	444					
811.28		425	420	421	410					
829.46	441	388	393	383	382					
847.64	380									
865.83	344									
930.19	-	189	-	184	-	194	-	188	-	193
962.86		-	250	-	254	-	242	-	223	
1187.65	332	343	317	329	312					

226

494

STA PHI = 22.5 67.5 112.5 157.5

SID 62 929
APPENDIX A

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TNT 77 BLOW - 53 2ND RED.

CONFIG E40 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA 375 BN 832

STA	PHI _z	00	45	90	135	180	225	270	280	290	315
	DEC=	3	3	3	3	3	3	3	3	3	3
371.46		103									
378.55		117									
398.00		105	217	164	288						
425.10		246		466		635					
443.82		262	380	563	749	801					
459.10		375	580	731	771						
472.37		60	247	393	520	550					
479.28		- 646	- 627	- 595	- 586	- 579	- 580				
500.00		- 204	- 440	- 414	- 433	- 429					
516.37							- 108				
572.00		- 205	- 185	- 247	- 190	- 159	- 224				
756.73		220	240	205	124	84					
774.92		323	369	401	413	425					
793.10			416	476	525	542					
811.28			376	442	485	514					
829.46		303	336	392	436	468					
847.64		260									
865.83		238									
930.19		- 226	- 229	- 199	- 169	- 156					
962.86			- 300	- 275	- 238	- 209					
1187.65		309	335	341	299	309					

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STA PHI_z 22.5 67.5 112.5 157.5

DEC= 3 3 3 3

1323.83 - 471 - 512 - 507 - 437

SID 62 929

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APPENDIX A

TWT 777 BLOW 53 2ND RED.

CONFIG E40 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/G

ALPHA	STA	PHI#	00	45	90	135	180	225	270	280	290	315
		DEC#	3	3	3	3	3	3	3	3	3	3
371.46		95										
378.55		126										
398.00		115										
425.10		241										
443.82		259										
459.10		387										
472.37		72										
479.28		658	-	626	-	596	-	585	-	578	-	
500.00		-	204	-	439	-	414	-	431	-	432	-
516.37												- 531
572.00		-	206	-	183	-	240	-	187	-	163	-
756.73		220		242		209		127		85		- 221 -
774.92		320		374		398		412		429		
793.10												
811.28												
829.46		295		336		398		438		462		
847.64												
865.83		234										
930.19		-	230	-	227	-	204	-	172	-	152	
962.86			-		296	-	275	-	236	-	211	
1187.65		312		333		341		297		309		

STA PHI# 22.5 67.5 112.5 157.5

SID 62 929
APPENDIX A

1323.83 DEC# 3 3 3 3 3 - 471 - 513 - 503 - 438

TWT 77 BLOW 54

CONFIG E40 T16 C2 S3 K 1 B

TUNNEL CONDITIONS

	TIME	ALPH	BN	HO	PO	M	Q	TTO	RN	V
DEC 1	2			1	3	1	1	3	1	
82	176	746	3831	15747	1202	15938	5399	8385	12062	
124	175	873	3825	15714	1203	15917	5394	8383	12060	
162	581	985	3818	15714	1202	15881	5379	8399	12032	
201	579	1103	3793	15595	1202	15778	5365	8371	12022	

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SID 62 929

APPENDIX A

TWT 77 BLOW 54

CONFIG E40 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA 176 BN 746

STA	PHI =	00	45	90	135	180	225	270	280	290	315
	DEC =	3	3	3	3	3	3	3	3	3	3
371.46		109									
378.55		130									
398.00		163	185	144	227						
425.10		276		407							
443.82		316	419	539	620	674					
459.10		441	553	632	662						
472.37		143	290	397	452	477					
479.28		- 616	- 620	- 606	- 596	- 590	- 598				
500.00		- 277	- 423	- 427	- 427	- 440					
516.37											
572.00		- 202	- 179	- 217	- 199	- 177					
756.73		237	244	223	206	196					
774.92		376	382	403	413	421					
793.10		437	476	500	500	512					
811.28		391	427	462	479						
829.46		350	362	386	418	435					
847.64		311									
865.83		279									
930.19		- 214	- 209	- 191	- 175	- 175					
962.86		-	- 276	- 261	- 242	- 229					
1187.65		317	339	335	330	327					
STA	PHI =	22.5	67.5	112.5	157.5						
	DEC =	3	3	3	3						
1323.83		- 490	- 479	- 453	- 433						

SID 62 929

APPENDIX

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TWT 777 BLOW 54

CONFIG E40 T16 C2 S3 K I B
PRESSURE COEFFICIENTS (DELTA P)/Q

STA	PHI =	00	45	90	135	180	225	270	280	290	315
DEC#	3	3	3	3	3	3	3	3	3	3	3
ALPHA	175	BN	873								
371.46		111									
378.55		120									
398.00		137									
425.10		280									
443.82		316									
459.10		446									
472.37		148									
479.28		610									
500.00		243									
516.37		243									
572.00		204									
756.73		239									
774.92		372									
793.10		433									
811.28		400									
829.46		351									
847.64		309									
865.83		279									
930.19		-	204	-	218	-	195	-	177	-	173
962.86		-	279	-	279	-	262	-	240	-	225
1187.65		316			338		336		328		328

STA PHI = 22.5 67.5 112.5 157.5
DEC# 3 3 3 3
1323.83 - 456 - 444 - 422 - 395

SID 62 929
APPENDIX A

TWT 77 BLOW 54

CONFIG E40 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA 581 BN 985

STA	PHI#	00	45	90	135	180	225	270	280	290	315
	DEC#	3	3	3	3	3	3	3	3	3	3
371.46		86									
378.55		101									
398.00			206								
425.10			213								
443.82				330							
459.10					331						
472.37			-	2	184						
479.28			-	674	-	646	-	608	-	597	-
500.00			-	206	-	477	-	465	-	449	-
516.37											- 551
572.00			-	203	-	206	-	274	-	184	-
756.73				218		253		205		41	
774.92				304			365				
793.10							389				
811.28								413			
829.46									542		
847.64										568	
865.83											
930.19											- 178
962.86											- 261
1187.65											- 259
STA	PHI#	22.5	67.5	112.5	157.5						
	DEC#	3	3	3	3						
1323.83		- 503	- 493	- 577	- 471						

TWT 77 BLOW 54

CONF1G E40 T16 C2 S3 K I B

PRESSURE COEFFICIENTS (DELTA P)/Q

SID 62 929

TWT 77 BLOW 55

CONFIG E35 T16 C2 S3 K 1 B

TUNNEL CONDITIONS

	TIME	ALPH	BN	HO	PO	M	Q	TTO	RN	V
DEC 1	2					1	3	1	1	1
76	200	775	3849	15802	1203	16020	5391	8442	12060	
115	200	892	3837	15744	1204	15970	5391	8415	12063	
155	604	1012	3834	15748	1203	15955	5377	8438	12042	
195	600	1132	3795	15625	1201	15784	5360	8387	12009	

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SID 62 929
APPENDIX A

TWT 77 Below 55

CONFIG E35 T16 C2 S3 K I B

PRESSURE COEFFICIENTS ($\Delta T / Q$)

SID 62 929

TWT 77 BLOW 55

CONFIG_E35_T16_C2_S3_K_1_B

PRESSURE COEFFICIENTS (DELTAP) / 0

ALPHA	200	BN	892									
STA	PHI#	00	45	90	135	180	225	270	280	290	315	
371.46	DEC#	3	3	3	3	3	3	3	3	3	3	
378.55	237	232	237	219	215							
398.00		235	235	233	202	227						
425.10	356		426			469						
443.82	436	512	579	655	697							
459.10		536	601	691	731							
472.37	274	383	423	503	528							
479.28	-	597	-	598	-	585	-	579	-	577	-	573
500.00	-	347	-	447	-	427	-	433	-	444	-	547
516.37												
572.00	-	252	-	220	-	234	-	203	-	188	-	73
756.73	249	231	196	160	140							
774.92	384	384	395	401	410							
793.10		452	477	499	511							
811.28		415	440	467	485							
829.46	382	374	399	426	438							
847.64	334											
865.83	300											
930.19	-	201	-	207	-	193	-	176	-	165		
962.86		-	273	-	266	-	241	-	224			
1187.65	334	346	340	330	330							

STA PHI = 22.5 67.5 112.5 157.5

SID 62 929
APPENDIX A

TWT 77 BLOW 55

CONFIG E35 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

STA	ALPHA	604	BN	1012							
STA	PHI =	00	45	90	135	180	225	270	280	290	315
STA	DEC =	3	3	3	3	3	3	3	3	3	3
371.46		201									
378.55		219									
398.00			237								
425.10			315								
443.82			302								
459.10				410							
472.37				86							
479.28				- 667	- 625	- 624	- 624	- 624	- 624	- 624	- 599
500.00				- 324	- 468	- 523	- 523	- 523	- 523	- 523	-
516.37											
572.00				- 267	- 251	- 276	- 276	- 276	- 276	- 276	- 266
756.73				223	254	159	159	159	159	159	-
774.92				299	366	363	363	363	363	363	-
793.10					407	449	449	449	449	449	
811.28					378	439	439	439	439	439	
829.46					301	331	385	385	385	385	
847.64					263						
865.83					241						
930.19				-	225	- 230	- 208	- 208	- 208	- 208	- 135
962.86						- 327	- 295	- 295	- 295	- 295	- 190
1187.65						329	338	313	258	258	300

STA PHI = 22.5 67.5 112.5 157.5

STA	DEC =	3	3	3	3	3	3
1323.83		- 487	- 455	- 575	- 475		

SID 62 929

APPENDIX A

CONFIDENTIAL

TWT 77 BELOW 55

CONCISE E35 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

Name _____

BN 1122

APPENDIX A

\$ID 62 929

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TWT 77 BLOW 56

CONFIG E35 T16 C2 S3 K 1 B

TUNNEL CONDITIONS

	TIME	ALPH	BN	HO	PO	M	Q	TTO	RN	V	W
DEC 1	2			1		3	1		1		1
82 -	2	785	3855	15827	1203	16043	5399	8437	12069		
121 -	3	902	3840	15810	1201	15970	5396	8412	12049		
160	403	1019	3835	15782	1202	15949	5385	8421	12040		
199	400	1138	3797	15654	1200	15786	5370	8371	12013		

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SID 62 929
APPENDIX A

INT 77 BLOW 56

CONFIG E35 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA	-	2	BN	785								
STA	PHI=	00	45	90	135	180	225	270	280	290	290	315
DEC=	3	3	3	3	3	3	3	3	3	3	3	3
371.46	253	252	252	252	252	249						
378.55	259	234	238	230	230	236						
398.00	359	369	369	369	369	362						
425.10	530	525	549	546	546	549						
443.82	592	612	606	606	606	595						
459.10	419	432	441	444	444	443						
472.37	-	581	-	593	-	594	-	595	-	586	-	596
479.28	-	438	-	449	-	448	-	455	-	450	-	568
500.00	-	219	-	212	-	220	-	214	-	206	-	122
516.37	-	245	197	194	194	205	205	205	205	205	205	207
572.00	-	423	387	386	386	389	389	389	389	389	389	389
756.73	-	423	462	460	469	469	467					
774.92	-	423	423	437	435	434						
793.10	-	381	444	404	401	389	398					
811.28	-	346	346	346	346	346						
829.46	-	381	381	381	381	381						
847.64	-	334	344	344	344	344						
865.83	-	334	344	344	344	344						
930.19	-	191	-	190	-	183	-	190	-	185		
962.86	-	254	-	254	-	253	-	243	-	230		
1187.65	-	334	344	344	344	344	344	344	344	344	344	323

STA PHI= 22.5 67.5 112.5 157.5

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SID 1323.83

APPENDIX

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TWT 777 BLOW 56

CONFIG E35 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA 403 BN 1019

STA	PHI =	00	45	90	135	180	225	270	280	290	315
DECZ	3	3	3	3	3	3	3	3	3	3	3
371.46	221	210									
378.55	220										
398.00		232	218	173							
425.10	313		408								
443.82	343	437	582	821							
459.10		446	631	810							
472.37	167	299	449	563							
479.28	-	631	-	594	-	600	-	600	-	597	
500.00	-	317	-	455	-	457	-	466	-	472	-
516.37											- 554
572.00	-	252	-	229	-	249	-	198	-	166	-
756.73	228	234		165		51		11		- 215	-
774.92	314	373	386	399							
793.10		420	471	513							
811.28		384	437	489							
829.46	320	339	395	445							
847.64		287									
865.83		260									
930.19	-	204	-	222	-	199	-	175	-	150	
962.86		-	296	-	278	-	238	-	209		
1187.65		315	336	338	293		311				
STA	PHI =	22.5	67.5	112.5	157.5						
DEC =		3	3	3	3						

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1323.83 - 466 - 517 - 525 - 441

MINT 77 BLOW 56

CONCISE E35 T16 C2 S3 K 1 I 8

PRESSURE COEFFICIENTS (DELTA P)/Q

SID 62 929
APPENDIX A

TWT 77 BLOW 57

CONFIG E35 T16 C2 S3 K 1 B

TUNNEL CONDITIONS

TIME	ALPH	BN	HO	PO	M	Q	TTO	RN	V
DEC 1	2				1	3	1	1	1
68 -	407	1089	3857	15833	1204	16053	5409	8421	12082
96 -	199	1174	3855	15816	1204	16045	5414	8405	12090
126	1006	1265	3840	15919	1196	15938	5411	8379	12025
153	1470	1344	3844	16153	1185	15889	5404	8398	11935

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SID 62 929
APPENDIX A

TWT 77 BELOW 57

CONF16 E335 T16 C2 S3 K 1 B

DRESS SHIRT COEFFICIENTS (DELTAP)/Q

SID 62 929

TWT 77 BLOW 57

CONFIG E35 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA 1006 BN 1265

STA PHI= 00 45 90 135 180 225 270 280 290 315

DEC= 3 3 3 3 3 3 3 3 3 3

371.46 160 124 105

378.55 171 113 - 42 573

398.00 107 679 1165

425.10 327 719 892 988

443.82 341 315 792 313

459.10 384 639 769 850

472.37 79 285 418 551 611

479.28 - 692 - 698 - 696 - 654 - 625 - 651

500.00 - 339 - 624 - 621 - 515 - 460 - 357 - 353

516.37 - 333 - 311 - 321 - 151 - 61 - 327 - 327

572.00 - 266 217 126 - 110 - 27

756.73 361 245 268 330 415

774.92 793.10 288 368 517 614

811.28 310 374 489 566

829.46 329 296 335 448 525

847.64 273

865.83 240

930.19 - 242 - 268 - 251 - 169 - 112

962.86 - 366 - 325 - 220 - 143

1187.65 305 255 181 218 277

STA PHI= 22.5 67.5 112.5 157.5

DEC= 3 3 3 3

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APPENDIX A

TWT 77 BLOW 57

CONFIG E35 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

STA	PHI =	DEC =	ALPHA	1470	BN	1344	
371.46		17					
378.55		91					
398.00		230					
425.10		300					
443.82		311					
459.10		336					
472.37		58					
479.28		-730					
500.00		-618					
516.37		-					
572.00		-423					
756.73		249					
774.92		439					
793.10		148					
811.28		219					
829.46		341					
847.64		271					
865.83		228					
930.19		292					
932.86		-					
1187.65		318					
STA	PHI =		22.5	67.5	112.5	157.5	
SID	DEC =		3	3	3	3	
			-608	-571	-447	-455	

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62 929

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TWT 77 BLOW 58

CONFIG C2 S3 K 1 B

TUNNEL CONDITIONS

TIME	ALPH	BN	HO	PO	M	Q	TTO	RN	V
DEC 1	2			1	3	1	1	3	1
88	-	885	3836	15917	1195	15919	5283	8640	11876
127	392	1002	3842	15872	1199	15960	5254	8716	11869
165	390	1117	3826	15835	1197	15885	5228	8736	11829
207	8	3844	3282	15862	1187	15886	5183	8446	11868

TWT 77 BLOW 58

CONFIG C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA = 13 BN 885

STA	PHI =	00	45	90	135	180	225	270	280	290	315
DEC =	3	3	3	3	3	3	3	3	3	3	3
371.46	1396										
378.55	1042	955	933	925	925	922	922	922	922	922	922
398.00	821		811								
425.10	726	729	731	734	734	744	744	744	744	744	744
443.82											
459.10	648	646	642	642	642	638	638	638	638	638	638
472.37	451	476	457	457	457	458	458	458	458	458	458
479.28	-	669	-	688	-	692	-	692	-	689	-
500.00	-	650	-	650	-	649	-	653	-	655	-
516.37											
572.00	-	336	-	327	-	335	-	336	-	331	-
756.73	270	217	214	227	227	237	237	237	237	237	237
774.92	367	392	387	391	391	394	394	394	394	394	394
793.10		460	456	465	465	461	461	461	461	461	461
811.28		455	469	467	467	455	455	455	455	455	455
829.46	498	428	428	419	419	434	434	434	434	434	434
847.64	413										
865.83	375										
930.19	-	183	-	182	-	184	-	182	-	180	-
962.86	-	261	-	272	-	258	-	258	-	250	-
1187.65	383	390	365	381	381	367	367	367	367	367	367
STA	PHI =	22.5	67.5	112.5	157.5						
DEC =	3	3	3	3	3						
1323.83	-	425	-	424	-	437	-	417	-		

SID 62 929
APPENDIX A

TWT 777 BLOW 58

CONFIG

C2 S3 K 1 B

PRESSURE COEFFICIENTS: (DELTA P)/Q

ALPHA	392	BN	1002								
STA	PHI=	00	45	90	135	180	225	270	280	290	315
DEC=	3	3	3	3	3	3	3	3	3	3	3
371.46	1384										
378.55	953										
398.00		866		907	967	997					
425.10		740		802			881				
443.82		658	681	714	773	801					
459.10		593	637	679	700						
472.37		401	408	451	501	506					
479.28		686	693	687	674	663	-	668			
500.00		-	679	-	671	-	642	-	606	-	594
516.37											
572.00		-	420	-	390	-	332	-	265	-	227
756.73		293	271	271	185	35	-	7			
774.92		341	356	364	379	393					
793.10			397	437	496	519					
811.28			412	439	493	470					
829.46		421	376	418	450	461					
847.64		374									
865.83		332									
930.19		-	194	-	203	-	195	-	173	-	164
962.86			-	284	-	283	-	244	-	216	
1187.65			377	370	364	335	344				
STA	PHI=	22.5	67.5	112.5	157.5						
	DEC=	3	3	3	3	3					
SID	1323.83	-	401	-	513	-	521	-	443		

TWT 777 BLOW 58

CONFIG C2 S3 K I B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA	390	BN	1117	STA	PHI=	00	45	90	135	180	225	270	280	290	315
					DEC=	3	3	3	3	3	3	3	3	3	3
371.46				371.46	1388				989			1096			
378.55				378.55	949				890	911	972	999			
398.00				398.00	736				805			885			
425.10				425.10	670	679	720	773	798			680			
443.82				443.82					594	641	683	708			
459.10				459.10					399	433	451	495	508		
472.37				472.37					- 691	- 692	- 688	- 676	- 664	- 669	- 735
479.28				479.28					- 679	- 671	- 644	- 610	- 594		
500.00				500.00										- 264	
516.37				516.37										- 317	- 350
572.00				572.00		- 422	- 390	- 334	- 268	- 230					
756.73				756.73		295	271	187	35	- 7					
774.92				774.92		340	362	365	382	397					
793.10				793.10		395	436	497	519						
811.28				811.28		409	448	490	504						
829.46				829.46		424	388	414	446	455					
847.64				847.64		376									
865.83				865.83		329									
930.19				930.19		- 191	- 198	- 196	- 171	- 161					
962.86				962.86		-	- 279	- 283	- 241	- 221					
1187.65				1187.65		377	367	367	336	344					

STA PHI= 22.5 67.5 112.5 157.5

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DEC= 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3

1323.83 - 396 - 507 - 519 - 438

TWT 77 BLOW 59

CONFIG NOISE PROBE C2 S3 K1B

TUNNEL CONDITIONS

TIME	ALPH	BN	HO	PO	M	Q	TTO	RN	V
DEC 1	2				1	3	1	1	1
77	618	3841	15595	1212	16035	5269	8685	11989	
115	733	3815	15558	1208	15905	5245	8676	11935	

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APPENDIX A

65 **INTRODUCTION**

CONEIG NOISE PROBE C2 S3 K1 B

SUBSCRIPTION COEFFICIENTS (DELTAP) / 9

SID 62 929
APPENDIX A

TWT 77 BLOW 59

CONFIG NOISE PROBE C2 S3 K1 B

PRESSURE COEFFICIENTS (DELTAP)/Q

ALPHA	STA	PHI =	BN	733	3	3	3	3	3	3	3	3	3	3	3	3	3	3	315
		DEC =			- 259	-	- 262	-	-	- 262	-	-	- 261	-	- 261	-	- 253		
	371.46				- 263	-	- 260	-	-	- 262	-	-	- 262	-	- 261	-	- 258		
	378.55				-	- 254	-	- 260	-	-	- 262	-	-	- 262	-	-	- 256		
	398.00				37	-	-	- 262	-	-	- 262	-	-	-	-	-	-	885	
	425.10				912	913	917	909	898										
	443.82				471	494	495	501	496										
	459.10				638	-	- 645	-	- 648	-	- 646	-	- 639	-	- 638	-	- 638		
	472.37				583	-	- 585	-	- 585	-	- 579	-	- 584	-	-	-	-	664	
	479.28				516.37	-	- 302	-	- 296	-	- 300	-	- 292	-	- 282	-	- 226		
	500.00				572.00	-	-	-	-	-	-	-	-	-	-	-	- 267	- 290	
					756.73	246	185	168	160	160	160	160	160	160	160	160	164		
					774.92	384	384	383	381	381	381	381	381	381	381	381	381	381	256
					793.10	469	464	470	470	470	470	470	470	470	470	470	470	470	
					811.28	456	460	459	459	459	459	459	459	459	459	459	459		
					829.46	484	418	431	416	421	421	421	421	421	421	421	421		
					847.64	403	367												
					865.83														
					930.19	-	- 178	-	- 174	-	- 170	-	- 171	-	- 169	-			
					962.86		-	- 259	-	- 250	-	- 248	-	- 246	-				
					1187.65	352	357	342	352	352	352	352	352	352	352	352	352	340	
					STA	PHI =	22.5	67.5	112.5	157.5									

SID 62 929
APPENDIX A

TNT 77 BLOW 60

CONFIG NOISE PROBE C2 S3 K18

TUNNEL CONDITIONS

TIME	ALPH	BN	HO	PO	M	Q	TTO	RN	V
DEC 1	2			1	3	1	1	3	1
74 -	2	632	3841	15618	1211	16028	5273	8677	11984
113 -	3	751	3815	15565	1208	15906	5252	8662	11941

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SID 62 929
APPENDIX A

TWT 77 BLOW 60

CONFIG NOISE PROBE C2 S3 K1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA = 2 BN 632

STA	PHI =	00	45	90	135	180	225	270	280	290	315
DEC#		3	3	3	3	3	3	3	3	3	3
371.46	-	367	-	255	-	254	-	254	-	254	-
378.55	-	257	-	247	-	257	-	256	-	254	-
398.00	-	106	-	106	-	261	-	261	-	259	-
425.10	-	909	914	914	917	905	905	905	905	911	911
443.82	-	737	737	736	733	729	729	729	729	890	890
459.10	-	474	498	498	501	494	494	494	494	494	494
472.37	-	626	654	660	653	647	650	650	650	678	678
479.28	-	594	597	596	589	601	-	-	-	244	-
500.00	-	300	296	298	292	282	-	-	-	267	-
516.37	-	241	184	162	154	158	-	-	-	289	-
572.00	-	390	382	381	380	380	-	-	-	-	-
756.73	-	461	466	470	470	462	-	-	-	-	-
774.92	-	455	457	460	460	458	-	-	-	-	-
793.10	-	486	414	422	423	423	-	-	-	-	-
811.28	-	407	-	-	-	-	-	-	-	-	-
829.46	-	374	-	-	-	-	-	-	-	-	-
847.64	-	352	358	343	350	341	-	-	-	-	-
865.83	-	930.19	-	-	-	-	-	-	-	-	-
962.86	-	1187.65	-	-	-	-	-	-	-	-	-

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STA PHI = 22.5 67.5 112.5 157.5
DEC# 3 3 3 3
1323.83 - 416 - 387 - 422 - 392

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APPENDIX A

TWT 77 BELOW 60

CONFIG NOISE PROBE C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA = 3 BN 751

STA	PHI=	00	45	90	135	180	225	270	280	290	315
	DEC=	3	3	3	3	3	3	3	3	3	3
371.46	-	256	-	252	-	252	-	252	-	252	-
378.55	-	254	-	258	-	253	-	256	-	259	-
398.00		21	-	254	-	254	-	254	-	259	-
425.10		907	914	913	909	909	909	909	909	909	909
443.82		470	496	499	505	505	505	505	505	505	505
459.10		479.28	-	638	-	645	-	649	-	643	-
472.37		500.00	-	583	-	583	-	582	-	574	-
516.37		572.00	-	301	-	297	-	295	-	291	-
572.00		756.73	246	190	172	172	172	172	172	163	166
774.92	389	774.92	392	385	384	384	384	384	384	387	387
793.10		811.28	46.2	466	472	472	472	472	472	472	472
829.46		847.64	453	461	464	464	464	464	464	466	466
865.83	371	865.83	484	423	431	418	418	418	418	430	430
930.19	-	930.19	-	164	-	174	-	168	-	173	-
962.86		962.86	-	348	357	341	351	342	342	342	342
1187.65											

STA PHI= 22.5 67.5 112.5 157.5

STA	PHI=	00	45	90	135	180	225	270	280	290	315
	DEC=	3	3	3	3	3	3	3	3	3	3
1323.83	-	399	-	367	-	403	-	375	-	375	-

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APPENDIX A

TWT 77 BLOW 61

CONFIG NOISE PROBE C2 S3 KIB

TUNNEL CONDITIONS

TIME	ALPH	BN	HO	PO	M	Q	TTO	RN	V
DEC 1	2			1	3	1	1	3	1
82 -	2	661	3789	17128	1128	15268	5278	8509	11345
121 -	2	778	3763	17083	1125	15132	5257	8489	11294

~~INITIAL~~

~~CONFIRMED~~

260

SID 62 929
APPENDIX A

TWT 777 BLOW 61

CONFIG NOISE PROBE C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA - 2 BN 661

STA PHI# 00 45 90 135 180 225 270 280 290 315

DEC# 3 3 3 3 3 3 3 3 3 3

371.46 - 376 - 371 - 366 - 369 - 369 - 370

378.55 - 371 - 371 - 366 - 364 - 373 - 373 - 370

398.00 - 371 - 371 - 366 - 364 - 373 - 373 - 371

425.10 - 8 8 - 8 - 866 862 862 858

443.82 858 870 866 862 858

459.10 672 671 664 664 665

472.37 404 420 414 426 418

479.28 - 774 - 800 - 805 - 800 - 795 - 802

500.00 - 732 - 734 - 734 - 730 - 741 - 741

516.37 - 360 - 354 - 357 - 357 - 350 - 341

572.00 - 360 - 354 - 357 - 357 - 350 - 341

756.73 360 337 334 334 332 332 332

774.92 475 446 446 446 449 449 449

793.10 491 496 496 496 497 497 499

811.28 451 461 461 461 463 463 463

829.46 464 403 411 411 416 416 415

847.64 379 379 379 379 379 379 379

865.83 334 334 334 334 334 334 334

930.19 - 260 - 259 - 259 - 256 - 259 - 258

962.86 - 334 - 334 - 337 - 337 - 331 - 321

1187.65 423 427 407 407 423 410

STA PHI# 22.5 67.5 112.5 157.5

DEC# 3 3 3 3

1323.83 - 593 - 598 - 604 - 612

SID 62 929
APPENDIX A

CONFIG NOISE PROBE C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA - 2 BN 778

STA PHI= 00 45 90 135 180 225 270 280 290 290 315

DEC# 3 3 3 3 3 3 3 3 3 3 3

371•46	-	378	-	374	-	372	-			
378•55	-	376	-	372	-	369	-	376	-	373
398•00	-	97	-	-	-	373	-	-	-	365
425•10	-	865	868	870	867	857				850
443•82										
459•10										
472•37		397	411	415	421	413				
479•28	-	775	-	782	-	788	-	781	-	776
500•00	-	705	-	706	-	707	-	703	-	708
516•37									-	306
572•00	-	364	-	356	-	358	-	353	-	344
756•73		359	336	332	332	332				332
774•92		470	445	448	448	448				447
793•10										
811•28										
829•46										
847•64										
865•83										
930•19	-	264	-	258	-	262	-	260	-	262
962•86										
1187•65										

STA PHI= 22.5 67.5 112.5 157.5

DEC# 3 3 3 3

1323.83 - 556 - 566 - 572 - 579

SID 62 929
APPENDIX A

TWT 77 BLOW 62

CONFIG NOISE PROBE C2 S3 KIB

TUNNEL CONDITIONS

TIME	ALPH	BN	HO	PO	M	O	TTO	RN	V
DEC 1	2		1		1		3	1	
81 -	3	634	3786	18040	1086	14897	5293	8424	11018
121 -	3	755	3775	18053	1083	14825	5278	8427	10977

263

SID 62 929
APPENDIX A

TWT 777 BLOW 62

CONFIG NOISE PROBE C2 S3 K1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA = -3 BN 634

STA PHI= 00 45 90 135 180 225 270 280 290 315

DEC= 3 3 3 3 3 3 3 3 3 3

371.46 - 437 - 443 - 435 - 436 - 439 -

378.55 - 443 - 435 - 435 - 443 - 441 - 441

398.00 - 81 - 81 - 441 - 441 - 438 -

425.10 - 833 833 841 839 828 833 833

443.82 833 631 636 632 631 631 631

459.10 631 636 632 631 631 631 631

472.37 355 382 371 377 375 375 375

479.28 - 844 - 866 - 871 - 866 - 862 - 865 -

500.00 - 788 - 788 - 790 - 784 - 793 - 793 -

516.37 - 404 - 397 - 400 - 396 - 387 - 375 -

572.00 - 374 358 362 365 365 365 365

756.73 374 358 362 365 365 365 365

774.92 473 446 453 454 455 455 455

793.10 487 495 493 497 497 497 497

811.28 455 459 466 460 460 460 460

829.46 460 405 409 421 422 422 422

847.64 378 - - - - - -

865.83 332 - - - - - -

930.19 - 298 - 296 - 302 - 304 - 301 -

962.86 - 367 - 370 - 364 - 356 -

1187.65 402 404 393 403 395 -

STA PHI= 22.5 67.5 112.5 157.5

DEC= 3 3 3 3 3 3 3

1323.83 - 651 - 669 - 653 - 664 -

SID 62

APPENDIX 929

A

TWT 77 BLOW 62

CONFIG NOISE PROBE C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA	- 3	BN	755	STA	PHI=	00 45 90 135 180 225 270 280 290 315			
DEC=	3	3	3	3	3	3	3	3	3
371.46	- 444								
378.55	- 444	- 444	- 440	- 438	- 449	- 444			
398.00	- 176	- 440	- 446	- 446	- 446	- 446	- 445		
425.10									
443.82	835	839	839	837	837	835	822		
459.10		628	633	631	631	633			
472.37	357	372	367	378	378	374			
479.28	- 854	- 860	- 865	- 859	- 853	- 853			
500.00	- 776	- 778	- 778	- 775	- 780	- 780			
516.37									
572.00	- 407	- 401	- 404	- 400	- 391	- 355			
756.73	373	358	359	362	362	363			
774.92	479	447	451	455	455	453			
793.10									
811.28		488	490	497	497	497			
829.46		450	459	466	466	459			
847.64	456	406	428	413	413	413			
865.83	377								
930.19		- 306	- 309	- 308	- 306	- 311			
962.86		- 374	- 375	- 368	- 368	- 360			
1187.65	398	402	391	402	402	393			

STA PHI= 22.5 67.5 112.5 157.5

DEC= 3 3 3 3
1323.83 - 640 - 653 - 637 - 649

SID 62 929
APPENDIX A

TWT 77 BLOW 63

CONFIG NOISE PROBE C2 S3 KIB

TUNNEL CONDITIONS

TIME	ALPH	BN	HO	PO	M	Q	TTO	RN	V
DEC 1	2			1	3	1	1	3	1
78	723	3801	20006	1003	14092	5305	8287	10334	
116	838	3786	19993	1000	14004	5295	8269	10299	

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SID 62 929
APPENDIX A

TWT 77 BLOW 63

CONFIG NOISE PROBE C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA BN 723

STA	PHI*	00	45	90	135	180	225	270	280	290	315
	DEC=	3	3	3	3	3	3	3	3	3	3
371.46	-	109	-	-	98	-	-	-	-	-	111
378.55	-	115	-	-	114	-	110	-	112	-	110
398.00	-	-	-	-	-	-	108	-	-	-	119
425.10	-	35	-	-	-	-	-	-	-	-	-
443.82	-	779	769	773	773	773	773	773	773	773	758
459.10	-	547	546	546	546	546	546	546	546	546	549
472.37	-	263	276	262	262	262	262	262	262	262	275
479.28	-	1027	-	1053	-	1059	-	1053	-	1047	-
500.00	-	966	-	967	-	968	-	966	-	975	-
516.37	-	-	-	-	-	-	-	-	-	-	-
572.00	-	535	-	524	-	530	-	521	-	514	-
756.73	-	440	424	424	423	423	423	423	423	423	422
774.92	-	560	501	501	505	505	505	505	505	505	503
793.10	-	-	513	511	511	511	511	511	511	511	518
811.28	-	441	442	442	441	441	441	441	441	441	437
829.46	-	435	384	373	373	373	373	373	373	373	389
847.64	-	346	-	-	-	-	-	-	-	-	-
865.83	-	287	-	-	-	-	-	-	-	-	-
930.19	-	432	-	421	-	436	-	438	-	442	-
962.86	-	-	-	485	-	489	-	485	-	480	-
1187.65	-	355	-	361	-	352	-	365	-	352	-

STA PHI = 22.5 67.5 112.5 157.5

DEC= 3 3 3 3
SID - 743 - 740 - 752 - 731

APPENDIX A
62 929

TWT 77 BLOW 63

CONFIG NOISE PROBE C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA BN 838

STA PHI = 00 45 90

DEC = 3 3 3

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TWT 777 BLOW 64

CONFIG NOISE PROBE C2 S3 KIB

TUNNEL CONDITIONS

TIME	ALPH	BN	HO	PO	M	Q	V	TTO	RN
DEC 1	2				1	3	1	1	1
75	556	3779	21274	944	13283	5353	7997	9867	
115	675	3766	21250	942	13209	5338	7993	9834	

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SID 62 929
APPENDIX A

TWT 77 BLOW 64

CONNECT NOISE BPNBE C2 S3 K I B

BIBESCIPIRE COEFFICIENTS (DELTA P)/Q

APPENDIX A

TWENTY-SEVEN BLOW 64

CONFIG NOISE PROBE C2 S3 K1 B

PRESSURE COEFFICIENTS (DETAILED)

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- 1197 - 1206 - 1211 - 1203 - 1199 - 1198

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- 2.00 - 623 - 616 - 618 - 614 - 603 - 583 - 484

	92	93	94	95	96	97
92	54.3	44.6	44.9	45.0	44.7	

THE JOURNAL OF CLIMATE

3.46 **3.42** **3.42** **2.82** **2.82** **2.80**

卷之三

574 **560** **567** **561** **560** **560**

7.65 256 269 259 275 260

PHI = 22.5 67.5 112.5 157.5

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~~609 - 621 = 622 - 606~~

SID 62 929

APPENDIX A

TWT 77 BLOW 65

CONFIG NOISE PROBE C2 S3 K1B

TUNNEL CONDITIONS

TIME	ALPH	BN	HO	PO	M	Q	TTO	RN	V
DEC 1	2				1	3	1	3	1
79	807	3820	22175	917	13050	5326	8054	9597	
119	928	3798	22159	912	12909	5319	8006	9549	

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SID 62 928
APPENDIX A

TWT 77 BLOW 65

CONFIG NOISE PROBE C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA

BN 807

STA	PHI=	00	45	90	135	180	225	270	280	290	315
DEC=	3	3	3	3	3	3	3	3	3	3	3
371.46	-	103				87					93
378.55	-	100				97	-	89	-		99
398.00	-	108	-	109	-	99	-				91
425.10	-	108	-	108	-	99	-				688
443.82	-	699	696	696	699	697	697				698
459.10		451	451	456	456	459	459				446
472.37		132	173	157	157	158	158				159
479.28	-	1260	-	1287	-	1290	-	1285	-	1280	-
500.00	-	1178	-	1178	-	1177	-	1177	-	1188	-
516.37		187	-	197	-	173	-	180	-	172	-
572.00	-	293	289	293	293	291	291				389
756.73		456	383	396	396	391	391				410
774.92		384	402	392	392	384	384				278
793.10		297	316	304	304	301	301				373
811.28		282	220	249	237	253	253				384
829.46		194									
847.64		135									
865.83		607	-	623	-	630	-	626	-	620	
930.19		222	-	347	-	408	-	371	-	290	
962.86		237	223	239	239	222	222				
1187.65											
STA	PHI=	22.5	67.5	112.5	157.5						

APPENDIX
SID 62 929
A

STA PHI= 22.5 67.5 112.5 157.5

DEC= 3 3 3 3 3 3 3 3 3 3 3 3

1323.83 - 573 - 570 - 567 - 567

TWT 77 BLOW 65

CONFIG NOISE PROBE C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA

BN 928

STA	PHI =	00	45	90	135	180	225	270	280	290	315
	DEC =	3	3	3	3	3	3	3	3	3	3
371.46	-	100	-	92	-	90	-	90	-	90	-
378.55	-	106	-	91	-	98	-	99	-	99	-
398.00	-	111	-	89	-	90	-	90	-	90	-
425.10	-	696	701	684	693	673	-	686	-	686	-
443.82	-	696	701	684	693	673	-	686	-	686	-
459.10	-	439	451	440	450	450	-	459	-	459	-
472.37	-	110	149	150	155	151	-	472	-	472	-
479.28	-	1290	1294	1301	1298	1289	-	1286	-	1286	-
500.00	-	1181	1184	1187	1184	1189	-	1180	-	1180	-
516.37	-	190	205	168	184	171	-	190	-	190	-
572.00	-	295	277	287	284	275	-	572	-	572	-
756.73	-	448	369	391	381	370	-	756	-	756	-
774.92	-	373	396	391	378	378	-	774	-	774	-
793.10	-	282	303	286	294	294	-	793	-	793	-
811.28	-	282	230	251	243	231	-	811	-	811	-
829.46	-	201	-	-	-	-	-	829	-	829	-
847.64	-	134	-	-	-	-	-	847	-	847	-
865.83	-	605	-	618	-	636	-	631	-	638	-
930.19	-	-	-	-	-	-	-	-	-	-	-
962.86	-	213	-	285	-	330	-	305	-	247	-
1187.65	-	-	-	-	-	-	-	-	-	-	-
		274		218		235		219		219	
STA	PHI =	22.5	67.5	112.5	157.5						
	DEC =	3	3	3	3	3	3	3	3	3	3
1323.83	-	563	-	565	-	559	-	559	-	559	-

SID 62 929
APPENDIX A

TWT 77 BLOW 66

CONFIG NOISE PROBE C2 S3 KIB

TUNNEL CONDITIONS

TIME	ALPH	BN	HO	PO	M	Q	TTO	RN	V
DEC 1	2		1	3	1	1	3	1	
78	674	3816	22839	889	12626	5341	7919	9355	
116	790	3799	22872	883	12490	5332	7881	9299	

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SID 62 929
APPENDIX A

TWT 77 BLOW 66

CONFIG NOISE PROBE C2 S3 K I B

PRESSURE COEFFICIENTS (DELTA P)/Q

SIV 8H12 22.5 67.5 112.5 157.5

SID 62 929
APPENDIX A

TWENTY-SEVEN BLOW 66

CONFIG NOISE PROBE C2 S3 K1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA	STA	PHI =	BN	790	315
		DEC =	3	3	3
371.46	-	86	-	91	-
378.55	-	92	-	91	-
398.00	-	98	-	102	-
425.10	-	120	-	96	-
443.82	664	679	682	677	660
459.10		418	428	420	422
472.37	89	112	98	117	93
479.28	-	1222	-	1317	-
500.00	-	920	-	919	-
516.37		1198	-	1198	-
572.00	-	262	-	292	-
756.73		239	224	226	230
774.92	358	290	294	285	284
793.10		298	302	306	295
811.28		243	237	255	261
829.46	220	165	200	219	224
847.64					154
865.83					103
930.19	-	610	-	654	-
				114	-
				122	-
				117	-
				111	-
				644	-
				622	-
				117	-
				111	-
				277	-

STIA PHI = 22.5 67.5 112.5 157.5

SID 62 929
APPENDIX

TWT 77 BLOW 67

2ND REDUCTION

CONFIG NOISE PROBE C2 S3 KIB

TUNNEL CONDITIONS

TIME	ALPH	BN	HO	PO	M	Q	TTO	RN	V
DEC 1	2				1	1	1	3	1
75	2	615	4077	29598	692	9929	5341	7443	7491
113	2	729	4068	29630	688	9830	5334	7413	7449

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SID 62 929

APPENDIX A

~~CONFIDENTIAL~~

TWT 77 BLOW 67 2ND RED.

CONFIG NOISE PROBE C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA 2 BN 615

STA	PHI =	00	45	90	135	180	225	270	280	290	315
371.46	DEC=	3	3	3	3	3	3	3	3	3	3
378.55	-	93	-	-	96	-	-	-	-	87	-
398.00	-	90	-	76	-	99	-	92	-	83	-
425.10	-	414	-	-	84	-	84	-	69	-	543
443.82	552	569	549	536	541	536	541	541	541	541	543
459.10	-	225	235	235	235	235	235	235	235	235	232
472.37	-	188	-	221	-	236	-	205	-	194	-
479.28	-	1115	-	1110	-	1151	-	1091	-	1220	-
500.00	-	757	-	765	-	769	-	773	-	744	-
516.37	-	50	-	52	-	52	-	51	-	43	-
572.00	756.73	214	187	196	197	197	196	196	196	196	196
774.92	793.10	370	268	272	272	272	272	272	272	272	276
811.28	829.46	180	146	152	152	152	152	152	152	152	275
847.64	865.83	114	52	52	52	52	52	52	52	52	217
930.19	962.86	-	456	-	457	-	463	-	451	-	461
1187.65	154	151	138	138	156	156	139	139	139	139	139

STA PHI = 22.5 67.5 112.5 157.5

STA PHI = 22.5 67.5 112.5 157.5
DEC= 3 3 3 3
- 494 - 528 - 513 - 506

SID 62 929
APPENDIX A

TWT 77 BLOW 67 2ND RED.

CONFIG NOISE PROBE C2 S3 K1 B

PRESSURE COFFEE CLIENTS (DELTA P)/Q

SID 62 929
APPENDIX

TWT 77 BLOW 68

CONFIG NOISE PROBE C2 S3 K 1 B

TUNNEL CONDITIONS

TIME	ALPH	BN	HO	PO	M	A	TTO	F
DEC 1	2			1	3	1	1	3
94 -	5	671	4812	8929	1758	19317	5305	9671 15603
135 -	5	795	4918	8940	1758	19340	5285	9735 15573

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SID 62 929
APPENDIX A

TWT 77 BLOW 68

CONFIG NOISE PROBE C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA - 5 BN 671

STA PHI= 00 45 90 135 180 225 270 280 290 315

DEC= 3 3 3 3 3 3 3 3 3 3

371.46	-	26	-	32	-	20	-	20	-
378.55	-	35	-	21	-	22	-	20	-
398.00	-	371	-	20	-	20	-	23	-
425.10	-	801	797	808	802	796	-	-	-
443.82	-	927	946	944	922	-	-	-	-
459.10	788	825	807	808	794	-	-	-	-
472.37	-	172	-	176	-	186	-	184	-
479.28	-	209	-	192	-	199	-	203	-
500.00	-	206	-	203	-	206	-	206	-
516.37	-	118	-	115	-	120	-	117	-
572.00	-	44	-	45	-	46	-	45	-
756.73	-	209	-	43	-	39	-	44	-
774.92	-	286	-	283	-	281	-	280	-
793.10	-	296	-	293	-	280	-	296	-
811.28	-	397	275	283	279	287	-	-	-
829.46	-	299	-	264	-	-	-	-	-
847.64	-	264	-	-	-	-	-	-	-
865.83	-	-	-	-	-	-	-	-	-
930.19	-	9	-	17	-	3	-	12	-
962.86	-	-	-	98	-	102	-	96	-
1187.65	-	11	-	27	-	35	-	9	-
282	-	-	-	-	-	-	-	-	-
APPENDIX A	SID 62 929	STA PHI= 22.5 67.5 112.5 157.5	DEC= 3 3 3 3 3 3 3 3 3 3	1323.83	- 82 - 67 - 107 - 71				

TWT 77 BLOW 68

CONFIG NOISE PROBE C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA - 5 BN 795

STA	PHI =	00	45	90	135	180	225	270	280	290	315
DEC =	3	3	3	3	3	3	3	3	3	3	3
371.46	- 22	-	-	-	30	-	-	-	-	-	24
378.55	- 24	-	29	-	25	-	18	-	26	-	22
398.00	-	-	-	-	29	-	-	-	-	-	804
425.10	286	-	-	-	29	-	-	-	-	-	-
443.82	795	809	803	802	802	788	-	-	-	-	-
459.10	940	955	929	913	-	-	-	-	-	-	-
472.37	786	819	819	804	785	-	-	-	-	-	-
479.28	- 169	- 173	- 176	- 171	-	-	-	-	-	-	-
500.00	- 200	- 185	- 191	- 185	-	-	-	-	-	-	-
516.37	-	-	-	-	-	-	-	-	-	-	-
572.00	-	117	- 115	- 117	- 114	-	109	-	107	-	112
756.73	-	41	- 44	- 42	- 42	-	42	-	40	-	-
774.92	211	-	39	-	35	-	43	-	33	-	-
793.10	-	283	288	285	285	285	-	-	-	-	-
811.28	-	295	290	284	287	-	-	-	-	-	-
829.46	402	280	278	270	285	-	-	-	-	-	-
847.64	292	-	-	-	-	-	-	-	-	-	-
865.83	269	-	-	-	-	-	-	-	-	-	-
930.19	-	23	- 12	- 2	-	-	3	-	8	-	-
962.86	-	-	98	- 103	-	-	92	-	93	-	-
1187.65	-	11	- 23	- 33	-	-	6	-	34	-	-
STA	PHI =	22.5	67.5	112.5	157.5	-	-	-	-	-	-
1323.83	DEC =	3	3	3	3	3	3	3	3	3	3
283	-	71	- 51	-	91	-	56	-	-	-	-

SID 62 929
APPENDIX A

TWT 77 BLOW 69

CONFIG NOISE PROBE C2 S3 K 1 B

TUNNEL CONDITIONS

	TIME	ALPH	BN	HO	PO	M	Q	TTO	RN	V
DEC 1	2			1	3	1	1	3	1	1
116 -	3	757	4832	8966	1758	19397	5310	9698	15611	
155 -	3	876	4841	8983	1758	19434	5298	9747	15593	

284

SID 62 929
APPENDIX A

TWT 77 BLOW 69

CONFIG NOISE PROBE C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA = 3 BN 757

STA	PHI=	00	45	90	135	180	225	270	280	290	315
DEC#		3	3	3	3	3	3	3	3	3	3
371.46	-	16	-	14	-	14	-	23	-	23	-
378.55	-	25	-	21	-	11	-	22	-	21	-
398.00	-	315	-	-	-	22	-	-	-	24	-
425.10	-	802	818	816	799	799	794	-	-	794	-
443.82	-	949	945	926	914	-	-	-	-	-	-
459.10	-	763	826	826	803	803	790	-	-	-	-
472.37	-	167	-	172	-	177	-	170	-	166	-
479.28	-	199	191	187	183	188	-	-	-	237	-
500.00	-	-	-	-	-	-	-	-	-	19	-
516.37	-	119	-	114	-	118	-	114	-	108	-
572.00	-	38	-	40	-	42	-	41	-	41	-
756.73	-	216	-	40	-	33	-	40	-	28	-
774.92	-	293	287	288	286	286	-	-	-	-	-
793.10	-	290	293	287	288	288	286	-	-	-	-
811.28	-	400	281	272	279	287	296	-	-	-	-
829.46	-	300	-	-	-	-	-	-	-	-	-
847.64	-	265	-	-	-	-	-	-	-	-	-
865.83	-	6	-	9	1	-	14	-	11	-	-
930.19	-	-	-	-	-	-	-	-	-	-	-
962.86	-	-	-	-	-	-	-	-	-	-	-
1187.65	-	-	-	-	-	-	-	-	-	-	-

STA PHI= 22.5 67.5 112.5 157.5

DEC= 3 3 3 3

1323.83 - 75 - 57 - 93 - 57

SID 62 929
APPENDIX A

TWT 77 BLOW 69

CONFIG NOISE PROBE C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA	- 3	BN	876	45	90	135	180	225	270	280	290	315
STA	PHI=	00	3	3	3	3	3	3	3	3	3	3
371.46	-	23										
378.55	-	25	-	22	-	36	-	25	-	25	-	26
398.00	-	240	-	22	-	16	-	23	-	17	-	17
425.10		808	812									
443.82		944	946									
459.10		777	847									
472.37	-	168	-	171	-	175	-	168	-	166	-	157
479.28	-	197	-	189	-	185	-	179	-	187	-	237
500.00												
516.37												
572.00	-	118	-	113	-	120	-	113	-	110	-	112
756.73	-	38	-	41	-	42	-	43	-	41	-	
774.92	-	213	-	40	-	35	-	40	-	29	-	
793.10												
811.28												
829.46		398	275									
847.64		297										
865.83		267										
930.19	-	10	-	10	-	2	-	1	-	11	-	
962.86	-	8	-	9	-	93	-	100	-	90	-	92
1187.65	-											
STA	PHI=	22.5	67.5	112.5	157.5							

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STA PHI= 22.5 67.5 112.5 157.5

SID 62 929
APPENDIX A

TWT 77 BLOW 70

2ND REDUCTION

CONFIG E35 T16 C2 S3 K I B

TUNNEL CONDITIONS

TIME	ALPH	BN	HO	PO	M	Q	TTO	RN	V
DEC 1	2				1	1	1	3	1
87	-	8	776	4883	9061	1758	19602	5314	9792
129	-	6	904	4892	9078	1758	19639	5286	9881
166	428	1013	4872	9040	1758	19557	5268	9888	15548
204	416	1129	4848	8995	1758	19460	5249	9888	15520

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SID 62 929

APPENDIX A

TWT 77 BLOW 70 2ND RED

CONFIG E35 T16 C2 S3 K I B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA - 6 BN 904

STA	PHI =	00	45	90	135	180	225	270	280	290	290	315
DEC =	3	3	3	3	3	3	3	3	3	3	3	3
371.46		145			137					134		
378.55		133			145					126		144
398.00			131		145						318	
425.10		320			316							
443.82		505	523		501					518		511
459.10		640	620		620					623		609
472.37		566	586		575					590		561
479.28			- 147	- 155	- 144	- 151	- 149				57	
500.00												- 196
516.37												
572.00												
756.73		-	39	-	38	-	41	-	40	-	41	
774.92												
793.10												
811.28												
829.46												
847.64												
865.83												
930.19		-	8	10	-	1	-	7	-	5		
962.86												
1187.65			- 13	- 26	-	35	-	13	-	36		
STA	PHI =	22.5	67.5	112.5	157.5							
DEC =	3	3	3	3	3							
1323.83		- 84	- 67	- 95	- 73							

SID 62 929
APPENDIX A

TWT 77 BLOW 70 2ND RED
CONFIG E35 T16 C2 S3 K I B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA	428	BN	1013								
STA	PHI =	00	45	90	135	180	225	270	280	290	315
DEC =		3	3	3	3	3	3	3	3	3	3
371•46		94			108						
378•55		117	148	123	100	153					
398•00		288		368		591					
425•10		358	432	575	775	860					
443•82			514	666	828	883					
459•10		316	469	603	738	762					
472•37		208	-	208	-	173	-	166	-	179	
479•28		-	138	-	167	-	156	-	144	-	144
500•00		-									
516•37											
572•00		-	117	-	126	-	117	-	84	-	61
756•73		-	37	-	51	-	57	-	34	-	28
774•92		-	175	-	14	-	51	-	39	-	18
793•10											
811•28											
829•46											
847•64											
865•83											
930•19		-	43	-	34	-	6	-	104	-	7
962•86		-	5	-	107	-	107	-	75	-	62
9187•65		-	48	-	48	-	48	-	2	-	2

SID .62 929
APPENDIX A

TWT 777 BLOW 71

CONFIG E35 T16 C2 S3 K 1 B

TUNNEL CONDITIONS

TIME	ALPH	BN	HO	PO	M	Q	TTO	RN	V
DEC 1	2				1	3	1	1	1
88	189	953	4961	9205	1758	19913	5310	9956	15611
126	189	1068	4951	9187	1758	19874	5295	9977	15588
164	592	1183	4954	9192	1758	19886	5276	10032	15561
203	589	1299	4871	9039	1758	19554	5257	9913	15533

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SID 62 929
APPENDIX

A

TWT 77 BLOW 71

CONFIG E35 T16 C2 S3 K I B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA	189	BN	953									
STA	PHI \pm	00	45	90	135	180	225	270	280	290	315	
	DEC \pm	3	3	3	3	3	3	3	3	3	3	
371.46	122	112	116	116	109							
378.55												
398.00												
425.10	292	133	139	104	136							
443.82	406	485	541	622	650							
459.10		564	641	712	751							
472.37	422	517	567	643	663							
479.28	- 200	- 207	- 196	- 184	- 178	- 193						
500.00	- 149	- 172	- 167	- 163	- 167							
516.37												
572.00	-	114	- 109	- 101	- 97	84						
756.73	-	47	- 51	- 48	- 42	44						
774.92		188	- 30	- 40	- 43	28						
793.10			276	267	275	284						
811.28		268	262	279	295							
829.46		300	250	265	282	282						
847.64		242										
865.83		231										
930.19	-	32	- 22	- 12	- 1	5						
962.86			- 102	- 99	- 86	- 75						
1187.65	-	35	- 36	- 35	1	- 27						
293												
STA	PHI \pm	22.5	67.5	112.5	157.5							

SID 62 929
APPENDIX

TWT 77 BLOW 71

CONFIG E35 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

STA	PHI =	00	45	90	135	180	225	270	280	290	315
DEC =	3	3	3	3	3	3	3	3	3	3	3
371.46	592	BN	1183								
378.55		74	64	61							
398.00		99	141	113	114	223					
425.10		278	415	415	799						
443.82		339	416	632	888	980					406
459.10			476	721	894	953					
472.37		283	429	652	773	813					
479.28		-	235	-	223	-	197	-	179	-	183
500.00		-	172	-	178	-	190	-	156	-	152
516.37											- 246
572.00		-	122	-	144	-	125	-	74	-	41
756.73		-	33	-	62	-	77	-	37	-	21
774.92		165	-	3	-	73	-	41	-	12	
793.10			237		221		284		330		
811.28			244		232		284		340		
829.46		231	224	223	275	331					
847.64			199								
865.83		180									
930.19		-	45	-	50	-	30	-	10	-	24
962.86		-	45	-	122	-	111	-	67	-	51
1187.65		-	45	-	61	-	36	-	16	-	5
1323.83		22.5	67.5	112.5	157.5						

SID 62 929
APPENDIX A

TWT 77 BLOW 71

CONFIG E35 T16 C2 S3 K_I_B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA 589 BN 1299

STA	PHI =	00	45	90	135	180	225	270	280	290	315
		3	3	3	3	3	3	3	3	3	3
371.46		79									
378.55		100									
398.00		143									
425.10		278									
443.82		345									
459.10		475									
472.37		286									
479.28		- 240	-	223	-	194	-	176	-	165	-
500.00		- 166	-	174	-	185	-	158	-	147	-
516.37											
572.00		- 117	-	141	-	126	-	74	-	41	-
756.73		- 32	-	59	-	74	-	35	-	20	-
774.92		169		-		70	-	40	-	10	-
793.10		245				222		287		329	
811.28		243				238		288		334	
829.46		231				222		268		331	
847.64		194									
865.83		183									
930.19		- 49	-	49	-	25		11		25	
962.86		-		-		120	-	109	-	65	-
1187.65		- 44	-	58		43	-	15		8	

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STA PHI = 22.5 67.5 112.5 157.5

APPENDIX SID 62 929

A

TWT 77 BLOW 72

CONFIG E40 T16 C2 S3 K 1 B

TUNNEL CONDITIONS

TIME	ALPH	BN	HO	PO	M	Q	TTO	RN	V
DEC 1	2			1	3	1	1	3	1
97	157	732	4915	9121	1758	19731	5307	9874	15606
137	157	852	4885	9065	1758	19610	5292	9853	15583
177	560	971	4871	9038	1758	19553	5278	9859	15563
215	560	1086	4799	8905	1758	19266	5262	9754	15541

TWT 77 BLOW 72

CONFIG E40 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA 157 BN 732

STA	PHI =	00	45	90	135	180	225	270	280	290	315
	DEC =	3	3	3	3	3	3	3	3	3	3
371.46	71	74									68
378.55	69	103	159	133							189
398.00											445
425.10	233		395								359
443.82	316	423	552	597							628
459.10		500	617	663							679
472.37	326	459	549	593							613
479.28	-	214	-	199	-	188	-	181	-	196	
500.00	-	118	-	151	-	161	-	143	-	144	
516.37											32
572.00	-	88	-	105	-	99	-	90	-	75	
756.73	-	39	-	39	-	40	-	38	-	37	
774.92	-	198	-	5	-	30	-	35	-	27	
793.10				280	278			282	287		
811.28				276	284			285	285		
829.46	304	255	272					275	292		
847.64	246										
865.83	225										
930.19	-	25	-	14	-	5	-	4	-	6	
962.86				96	-	92	-	81	-	71	
1187.65	-	33	-	30	-	31	-	28			

STA PHI = 22.5 67.5 112.5 157.5

SID 62 929
APPENDIX A

TWT 77 BLOW 72

CONFIG E40 T16 C2 S3 K I B

PRESSURE COEFFICIENTS (DELTA P)/Q

SID 62 929
APPENDIX A

TWT 77 BLOW 72

CONFIG E40 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

STA	PHI =	00	45	90	135	180	225	270	280	290	315
	DEC =	3	3	3	3	3	3	3	3	3	3
ALPHA	560	BN	971								
371•46		46									
378•55		78									
398.00			86	228	200						
425.10		189		502							
443.82		226	354	636	848						
459.10			402	669	874						
472.37		153	354	578	774						
479.28		- 265	- 247	- 195	- 166						
500.00		- 71	- 213	- 162	- 151	- 135					
516•37									- 29		
572.00		- 88	- 141	- 129	- 71	- 39			- 130		
756.73		- 24	- 50	- 68	- 35	- 19					
774•92		172	15	59	40	- 5					
793.10			252	244	284						
811•28			256	249	288						
829.46		218	236	253	277						
847.64		182									
865.83		168									
930.19		- 45	- 45	- 20	11	24					
962.86		- 40	- 51	- 14	- 6	52					
1187.65						4					

STA PHI = 22.5 67.5 112.5 157.5

STA	PHI =	3	3	3	3
1323.83		- 108	- 247	- 244	- 57

SID 62 929 APPENDIX A

TNT 77 BLOW 72

CONFIG E40 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA 560 BN 1086

STA	PHI =	00	45	90	135	180	225	270	280	290	315
	DEC =	3	3	3	3	3	3	3	3	3	3
371.46		54									
378.55		73									
398.00		68	240	205	54	502	626	832	869	110	380
425.10		194									
443.82		227	362	502	679	679	832	921	921	784	315
459.10		407									
472.37		137	372	600	773	773	773	801	801	801	
479.28		-	277	246	192	192	166	153	171		
500.00		-	72	212	161	161	149	136	136		
516.37											
572.00		-	88	139	128	128	72	39	39		
756.73		-	21	48	69	69	40	40	40		
774.92		177	17	58	58	58	35	35	35		
793.10											
811.28											
829.46											
847.64											
865.83											
930.19		-	44	45	18	18	12	12	12	26	
962.86		-	116	105	105	105	66	66	66	49	
1187.65		-	39	50	14	14	9	9	9	6	
STA	PHI =	22.5	67.5	112.5	157.5						
	DEC =	3	3	3	3						
1323.83		-	107	-	246	-	242	-	242	-	56

TWT 77 BLOW 73

CONFIG E40 T16 C2 S3 K 1 B

TUNNEL CONDITIONS

TIME	ALPH	BN	HO	PO	M	Q	TTO	RN	V
DEC 1	2			1	3	1	1	3	1
99	11	1039	4902	9095	1758	19677	5324	9804	15631
134	13	1144	4897	9086	1758	19657	5314	9820	15616
171	416	1255	4868	9033	1758	19541	5300	9796	15596
208	416	1366	4822	8947	1758	19357	5286	9739	15576

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SID 62 929

APPENDIX A

TWT 77 BLOW 73

CONFIG E40 T16 C2 S3 K I B

PRESSURE COEFFICIENTS ($\Delta T / P$)

STA PH1 = 222.5 67.5 112.5 157.5

SID 62 929
APPENDIX A

TWENTY-SEVEN BLOW 73

CONFIG E40 T16 C2 S3 K I B

PRESSURE COEFFICIENTS (DELTA P)/Q

$$\text{STA} \quad \text{PHI} = 22.5 \quad 67.5 \quad 112.5 \quad 157.5$$

APPENDIX

929

TWT 77 BLOW 73

CONFIG E40 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA 416 BN 1255

STA PHI= 00 45 90 135 180 225 270 280 290 315

	DEC=	3	3	3	3	3	3	3	3	3
371.46	52	49								
378.55	69	72	217	189	306	96				
398.00	205		478		669					
425.10	251	394	599	748	823					
443.82		442	652	795	840					
459.10	165	404	572	704	734					
472.37	-	250	-	235	-	196	-	169	-	177
479.28	-	85	-	186	-	156	-	135	-	131
500.00										
516.37									-	9
572.00	-	90	-	131	-	122	-	88	-	63
756.73	-	34	-	50	-	58	-	43	-	35
774.92	-	179	-	12	-	50	-	43	-	22
793.10				267	252	277		309		
811.28				266	259	284		309		
829.46				231	240	238	276	309		
847.64				198						
865.83				176						
930.19	-	49	-	30	-	18	2	8		
962.86	-	22	-	43	-	38	6	-	6	
1187.65										
	STA PHI=	22.5	67.5	112.5	157.5					
	DEC=	3	3	3	3					
1323.83	-	105	-	228	-	148	-	44		

SID 62 929
APPENDIX A

TWT 77 BLOW 73

CONCLUDING

PRESSURE COEFFICIENTS (DELTA P)/Q

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APPENDIX A

TWT 77 BLOW 74

2ND REDUCTION

CONFIG E40 T16 C2 S3 K 1 B

TUNNEL CONDITIONS

TIME	ALPH	BN	HO	P0	M	Q	TTO	RN	V
DEC 1	2			1	3	1	1	3	1
92	13	1016	4567	12352	1505	19584	5314	9867	14108
129	13	1128	4612	12472	1505	19775	5302	9994	14092
166	419	1240	4584	12396	1505	19654	5286	9972	14071
203	416	1351	4466	12077	1505	19148	5266	9766	14044

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APPENDIX A

TWT 77 BLOW 74 2ND RED.

CONFIG E40 T16 C2 S3 K I B

CONFIG_E40_T16_C2_S3_K_I_B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA	13	BN	1016								
STA	PHI =	00	45	90	135	180	225	270	280	290	315
	DEC =	3	3	3	3	3	3	3	3	3	3
371•46		106		105							87
378•55		95									
398•00			107	146	110						133
425•10		293		312							306
443•82		423	456	467	467	472					436
459•10			543	538	546	538					
472•37		417	462	453	476	471					
479•28		- 311	- 317	- 316	- 312	- 309	- 324				
500•00		- 206	- 222	- 208	- 215	- 214					277
516•37									22		
572•00		- 124	- 125	- 125	- 124	- 118					106
756•73		- 33	- 43	- 43	- 49	- 40	- 39				
774•92		267	164	139	135						147
793•10			344	344	346	345					
811•28			320	324	334	334					
829•46		383	289	321	317	321					
847•64		307									
865•83		288									
930•19		- 59	- 60	- 51	- 54	- 56					
962•86		- 61	- 137	- 135	- 131	- 127					
1187•65		-	65	- 70	- 54	- 61					

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APPENDIX A

WT 77 BLOW 74 2ND RED.

ECONF16-E40 T16 C2 S3 K1 B1

DESSIBE COEFFICIENTS (DELLTA P1)/Q

SID 62 929

TWT 77 BLOW 74 2ND RED.
CONFIG E40 T16 C2 S3 K 1 B

~~CONFIDENTIAL~~ PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA 419 BN 1240

STA	PHI =	00	45	90	135	180	225	270	280	290	315	
371.46	DEC =	3	3	3	3	3	3	3	3	3	3	
378.55		67	86	82	238	198	124					
398.00												
425.10		231		461								
443.82		251	376	583	752	824						
459.10			413	623	768	827						
472.37		144	334	489	636	686						
479.28		-	383	-	361	-	322	-	301	-	304	
500.00		-	117	-	268	-	233	-	227	-	232	
516.37		-	125	-	144	-	165	-	121	-	99	
572.00			38	-	50	-	63	-	50	-	35	
756.73			241	-	179	-	71	-	15	-	2	
774.92					327	334	356	377				
793.10					310	324	357	376				
811.28					246	280	317	333	362			
829.46					212							
847.64					202							
865.83												
930.19		-	105	-	90	-	58	-	28	-	21	
962.86					-	161	-	146	-	120	-	104
1187.65					32	-	75	14	-	29	-	43

STA PHI = 22.5 67.5 112.5 157.5

DEC = 3 3 3 3
1323.83 - 222 - 314 - 250 - 138

SID 62 929
APPENDIX A

TWT 77 BLOW 74 2ND RED.

CONFIG E40 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA 416 BN 1351

STA	PHI=	00	45	90	135	180	225	270	280	290	315
DEC=		3	3	3	3	3	3	3	3	3	3
371.46		68									
78.55		95									
98.00		101									
425.10		231									
443.82		266									
459.10		382									
472.37		418									
479.28		131									
-		355									
-		361	-								
-		318	-								
500.00		-	394	-							
516.37		-	118	-							
572.00		-	263	-							
756.73		-	232	-							
774.92		-	124	-							
793.10		-	144	-							
811.28		-	45	-							
829.46		-	51	-							
847.64		-	60	-							
865.83		-	45	-							
930.19		-	34	-							
962.86		-	33	-							
1187.65		-	30	-							
1323.83		-	27	-							
STA	PHI=	22.5	67.5	112.5	157.5						

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APPENDIX A

TWT 77 BLOW 75

CONFIG E40 T16 C2 S3 K I B

TUNNEL CONDITIONS

TIME	ALPH	BN	HO	PO	M	Q	TTO	RN	V
DEC 1	2			1	3	1	1	3	1
86	211	938	4560	12333	1505	19555	5344	9776	14149
124	211	1051	4612	12474	1505	19777	5334	9913	14135
165	620	1175	4594	12423	1505	19697	5319	9911	14115
200	615	1279	4518	12218	1505	19372	5305	9782	14096

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APPENDIX A

TWT 77 BELOW 75

CONCLUDING REMARKS 1 8

PROFESSIONAL COFFEE CIENTS / DEI TA 01/0

ALPHA	211	BN	938								
STA	PHI=	00	45	90	135	180	225	270	280	290	315
DEC=		3	3	3	3	3	3	3	3	3	3
371.46		77									
378.55		90									
398.00			119		193	154					
425.10		246			422						
443.82		286	418		556	636	648				
459.10			474		600	663	681				
472.37		209	390		504	557	572				
479.28		- 358	- 355	-	335	- 320	- 315	- 332			
500.00		- 165	- 246	-	257	- 240	- 239		- 329		
516.37											
572.00		- 118	- 139	-	151	- 129	- 114		- 23		
756.73		1	- 50	-	53	- 43	- 46				
774.92		247	173		106	67	65				
793.10			333		342	352	363				
811.28											
829.46		290	279		312	330	346	359			
847.64			241								
865.83		224									
930.19		- 89	- 77	-	55	- 39	- 36				
962.86			- 152	-	143	- 128	- 117				
1187.65		- 32	- 75	-	72	- 46	- 58				

$$\text{PHI} = \frac{22.05}{67.05} \approx 0.33$$

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APPENDIX A

TWT 77 BLOW 75

CONFIG E40 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA 211 BN 1051

STA PHI= 00 45 90 135 180 225 270 280 290 315

DEC= 3 3 3 3 3 3 3 3 3 3

371•46 82 80 89

378•55 96 110 188 151 233

398•00 250 419 419 494

425•10 299 419 550 615 657

443•82 468 618 659 688

459•10 205 383 499 556 589

472•37 - 358 - 336 - 321 - 307 - 296 - 312

479•28 - 143 - 230 - 237 - 216 - 215 - 9 - 308

500•00 - 133 - - - - - - - - -

516•37 8 - 48 - 51 - 40 - 42

572•00 - 120 - 135 - 147 - 126 - 109 - 121 - 133

756•73 253 175 110 74 71

774•92 338 348 359 363

793•10 311 336 347 356

811•28 295 273 300 335 354

829•46 247 247

847•64 865•83 229

930•19 - 83 - 61 - 50 - 40 - 43

962•86 - 35 - 146 - 141 - 124 - 114

1187•65 - 71 - 69 - 41 - 54

STA PHI= 22.5 67.5 112.5 157.5

DEC= 3 3 3 3

1323•83 - 210 - 196 - 162 - 144

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APPENDIX A

TWT 77 BLOW 75

CONFIG E40 T16 C2 S3 K I B

PRESSURE COEFFICIENTS (DELTA P)/Q

STA	ALPHA	620	BN	1175							
STA	PHI =	00	45	90	135	180	225	270	280	290	315
371•46	DEC=	50	3	3	3	3	3	3	3	3	3
378•55		88			64						
398•00			74		249	220					
425•10		197			490						
443•82		226	340	596	856	967					
459•10			365	629	850	911					
472•37		110	316	498	688	739					
479•28		- 410 -	381 -	326 -	307 -	296 -	310				
500•00		- 120 -	311 -	260 -	252 -	238					
516•37							- 114				
572•00		- 130 -	170 -	188 -	114 -	69					
756•73		63 -	62 -	84 -	56 -	22					
774•92		232	176	12 -	55 -	6					
793•10			301	305	344	398					
811•28			292	304	347	392					
829•46		241	259	294	327	382					
847•64			201								
865•83		181									
930•19		- 110 -	99 -	64 -	25 -	9					
962•86			- 178 -	- 161 -	- 114 -	84					
1187•65			11 -	20	76 -	24 -	23				
STA	PHI =	22•5	67•5	112•5	157•5						
1323•83	DEC=	3	3	3	3	3					

TWT 77 BLOW 75

CONFIG E40 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA 615 BN 1279

STA PHI= 00 45 90 135 180 225 270 280 290 315

DEC= 3 3 3 3 3 3 3 3 3 3

371.46 56 57 145

378.55 93 86 248 230 413

398.00 197 502 845

425.10 232 342 612 860 963

443.82 366 623 853 925

459.10 92 296 514 697 738

472.37 - 419 - 379 - 325 - 306 - 295 - 310

479.28 - 116 - 308 - 257 - 251 - 238 - 336

500.00 - 516.37 - 127 - 166 - 187 - 111 - 69 - 109

572.00 - 756.73 63 - 54 - 80 - 55 - 21 - 187 - 196

774.92 228 179 19 - 50

793.10 303 303 350 401

811.28 298 311 354 397

829.46 239 269 300 337 381

847.64 198 - 185

865.83 - 930.19 - 110 - 86 - 64 - 23 - 2

962.86 - 962.86 - 174 - 154 - 113 - 88

1187.65 18 - 21 82 - 25 - 23

STA PHI= 22.5 67.5 112.5 157.5

DEC= 3 3 3 3

1323.83 - 220 - 292 - 354 - 187

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APPENDIX A

TWT 77 BLOW 76

CONFIG E40 T16 C2 S3 K 1 B

TUNNEL CONDITIONS

TIME	ALPH	BN	HO	PO	M	Q	TT0	RN	V
DEC 1	2			1	3	1	1	3	1
92	- 386	735	4734	12803	1505	20299	5338	10166	14140
127	- 195	841	4737	12811	1505	20313	5324	10208	14121
165	913	954	4702	12715	1505	20160	5310	10166	14103
202	1280	1065	4459	12060	1505	19121	5290	9693	14076

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TWT 77 BLOW 76

CONFIG E40 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA	- 386	BN	735					
STA	PHI =	00	45	90	135	180	225	270
	DEC =		3	3	3	3	3	3
371•46		67		74				
378•55		109		178	230	105	105	
398•00								
425•10	647			483				
443•82	809			718	602	376	277	
459•10				741	621	430	247	
472•37	646			607	461	356	136	
479•28	-	301	-	310	-	331	-	379
500•00	-	233	-	240	-	250	-	274
516•37								
572•00	-	110	-	119	-	166	-	147
756•73	-	35	-	48	-	60	-	48
774•92		281		54		79		79
793•10				363		336		170
811•28				349		334		170
829•46				464		310		187
847•64				366		328		268
865•83				338		295		237
930•19	-	19	-	25	-	47	-	331
962•86	-		-	121	-	146	-	162
1187•65	-	8	-	27	-	40	-	49
								2
STA	PHI =	22•5	67•5	112•5	157•5			
	DEC =	- 3	3	3	3			
1323•83	-	231	-	342	-	332	-	316

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APPENDIX A

TWT 77 BLOW 76
CONFIG E40 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA	913	BN	954	90	135	180	225	270	280	290	315
STA	PHI =	00	45	90	3	3	3	3	3	3	3
	DEC =	3	3	20	20	76	15	226	231	607	104
371•46											
378•55											
398•00											
425•10											
443•82											
459•10											
472•37											
479•28											
500•00											
516•37											
572•00											
756•73											
774•92											
793•10											
811•28											
829•46											
847•64											
865•83											
930•19											
962•86											
1187•65											
STA	PHI =	22•5	67•5	112•5	157•5						
	DEC =	3	3	3	3						
1323•83		- 206	- 127	- 332	- 218						

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APPENDIX A

TWT 77 BLOW 76

CONFIG E40 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA	1280	BN	1065					
STA	PHI =	00	45	90	135	180	225	270
	DEC =	3	3	3	3	3	3	3
371•46	-	42	-	111				
378•55	-	29	-	177	305	245		
398•00			107			1170		
425•10	161			656			1145	
443•82	192	260	661	924			246	
459•10		319	630	844			965	
472•37	85	300	526	689			776	
479•28	-	429	-	426	-	345	-	
500•00	-	275	-	430	-	378	-	
516•37	-	161	-	306	-	210	-	
572•00	-	3	-	39	-	259	-	
756•73			290	31	-	79	-	
774•92				100	66		339	
793•10				136	65		327	
811•28				317	148	53	309	
829•46				226			474	
847•64				187				
865•83				-	123	-	127	-
930•19					-	190	-	150
962•86					-	126	19	-
1187•65						-	89	-
STA	PHI =	22•5	67•5	112•5	157•5			
	DEC =	3	3	3	3			
1323•83	-	346	-	247	-	345	-	265

TWT 77 BLOW 77
CONFIG E35 T16 C2 S3 K I B

TUNNEL CONDITIONS

TIME	ALPH	BN	HO	PO	M	Q	TTO	RN	V
DEC 1	2			1	3	1	1	3	1
72	- 405	707	4760	12872	1505	20410	5358	10168	14167
101	- 214	796	4741	12822	1505	20330	5353	10142	14160
129	886	880	4723	12773	1505	20252	5344	10125	14149
157	1273	964	4703	12718	1505	20165	5332	10112	14133

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APPENDIX A

TWT 77 BLOW 77

CONFIG E35 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA	- 405	BN	707						
STA	PHI =	00	45	90	135	180	225	270	280
DEC =		3	3	3	3	3	3	3	3
371•46		128		120					145
378•55		107		143		152		179	
398•00			110		377			278	
425•10		548		545		413		344	
443•82		834	742						
459•10			806	617	475			362	
472•37		675	713	516	380			268	
479•28		- 314	- 337	- 338	- 369			392	- 370
500•00		- 277	- 288	- 279	- 306			- 258	
516•37									- 43
572•00		- 113	- 129	- 165	- 161			- 148	
756•73		- 40	- 53	- 70	- 61			- 38	
774•92		288	37	40	49			176	
793•10									
811•28									
829•46		463	304	296	279			245	
847•64		363							
865•83		338							
930•19		- 23	- 26	- 55	- 88			89	
962•86		-	- 127	- 153	- 165			131	
1187•65		- 6	- 29	65	64			5	
STA	PHI =	22•5	67•5	112•5	157•5				
1323•83	DEC =	- 3	- 3	- 3	- 3			3	
		- 264	- 377	- 377	- 352				

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APPENDIX A

TWT 77 BLOW 77

CONFIG E35 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA	- 214	BN	796	180	225	270	280	290	315
STA	PHI =	00	45	90	135	3	3	3	3
	DEC =	3	3	3	3	3	3	3	3
371•46	147	138	123	165	146	148			
378•55				359		181			
398•00				532	461	287			
425•10	421	648	610	605	540	399			
443•82			695	509	461	436			
459•10					355				
472•37	605								
479•28	- 294	- 228	- 233	- 229	- 247	- 328			
500•00									
516•37	- 124	- 130	- 145	- 145	- 140				
572•00	- 42	- 44	- 57	- 52	- 48				
756•73	-								
774•92	272	99	94	144	174				
793•10		359	335	335	306				
811•28		327	325	321	287				
829•46	433	301	324	300	268				
847•64	345								
865•83	315								
930•19	- 35	- 33	- 53	- 66	- 77				
962•86	-	- 131	- 144	- 151	- 125				
1187•65	- 37	- 41	- 57	- 23	- 51				
STA	PHI =	22•5	67•5	112•5	157•5				
	DEC =	3	3	3	3				
1323•83	-	224	- 300	- 271	- 265				

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APPENDIX A

TWT 77 BLOW 77

CONFIG E35 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA	886	BN	880	90	135	180	225	270	280	290	315
STA	PHI =	00	45	3	3	3	3	3	3	3	3
	DEC =	75	116	44	125	124	84	374	1181	1088	344
371•46											
378•55											
398•00											
425•10											
443•82											
459•10											
472•37											
479•28											
500•00											
516•37											
572•00											
756•73											
774•92											
793•10											
811•28											
829•46											
847•64											
865•83											
930•19											
962•86											
1187•65											
STA	PHI =	22•5	67•5	112•5	157•5						
	DEC =	3	3	3	3						
1323•83		- 217	- 120	- 339	- 213						

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APPENDIX A

TWT 77 BLOW 77

CONFIG E35 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA	1273	BN	964	180	225	270	280	290	315
STA	PHI =	00	45	90	135	3	3	3	3
	DEC =	3	3	3	3	3	3	3	3
371•46	46	-	86	-	134				
378•55	78	90	106	175	929				
398•00	268		694		1176				
425•10	335	275	671	949	1080				
443•82		371	640	870	985				
459•10	201	349	524	712	797				
472•37	-	401	-	391	-	304			
479•28	-	318	-	377	-	192			
500•00	-	208	-	308	-	40			
516•37	-	33	-	-	254	-			
572•00	-	276	40	-	199	-			
756•73					47	49			
774•92						44	58		
793•10						59	343	511	
811•28						68	334	491	
829•46						50	312	480	
847•64									
865•83									
930•19	-	115	-	135	-	146	-	61	
962•86	-	129	-	195	-	226	-	18	
1187•65	-			39	-	89	-	55	

STA PHI = 22•5 67•5 112•5 157•5
 DEC = 3 3 3 3
 1323•83 - 343 - 245 - 351 - 270

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APPENDIX A

TWT 77 BLOW 78

CONFIG E35 T16 C2 S3 K I B

TUNNEL CONDITIONS

	TIME	ALPH	BN	HO	PO	M	Q	TTO	RN	V
DEC 1	2									
86	201	1027	4742	12824	1505	20332	5360	10125	14169	
125	201	1146	4712	12744	1505	20205	5350	10088	14155	
164	606	1262	4697	12701	1505	20138	5338	10085	14140	
203	604	1380	4459	12058	1505	19118	5317	9624	14112	

TWT 77 BLOW 78

CONF 16 E35 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA 201 BN 1146

STA	PHI =	00	45	90	135	180	225	270	280	290	315
	DEC =	3	3	3	3	3	3	3	3	3	3
371.46	173										
378.55	164										
398.00	158										
425.10	313										
443.82	412	488	529	601	650						
459.10	548	610	691	738							
472.37	347	462	511	590	615						
479.28	-	322	318	300	-	290	-	288	-	286	
500.00	-	188	237	-	214	-	215	-	226	-	304
516.37											
572.00	-	139	-	134	-	139	-	118	-	108	
756.73	-	4	-	45	-	49	-	38	-	36	
774.92	259	172	110	69	71						
793.10	340	341	361	366							
811.28	323	342	356	351							
829.46	318	290	332	334	342						
847.64	276										
865.83	250										
930.19	-	71	-	74	-	51	-	37	-	38	
962.86	-	19	-	145	-	136	-	120	-	117	
1187.65	-	19	-	71	-	65	-	40	-	54	

STA PHI = 22.5 67.5 112.5 157.5

DEC = 3 3 3 3
1323.83 - 196 - 194 - 157 - 144

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TWT 77 BLOW 78

CONFIG E35 T16 C2 S3 K I B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA 606 BN 1262

STA	PHI =	00	45	90	135	180	225	270	280	290	315
371.46	DEC =	3	3	3	3	3	3	3	3	3	3
378.55		122	112								92
398.00		147	171	143	111					203	
425.10		282		394						788	
443.82		323	394	596	935	1041					389
459.10			436	690	911	954					
472.37		225	347	580	724	747					
479.28		-	370	-	351	-	319	-	318	-	309
500.00		-	218	-	251	-	275	-	263	-	247
516.37		-	149	-	173	-	167	-	105	-	68
572.00		-	58	-	57	-	80	-	40	-	16
756.73							5	-	46	-	2
774.92		217	170								
793.10				314	302	358	410				
811.28				308	312	358	405				
829.46		255	269	309	329	379					
847.64		217									
865.83			204								
930.19		-	98	-	99	-	61	-	21	-	8
962.86				-	178	-	156	-	109	-	85
1187.65				22	-	41	90	-	26	-	24

STA PHI = 22.5 67.5 . 112.5 157.5

STA

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TWT 77 BLOW 78

CONFIG E35 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA 604 BN 1380

STA	PHI =	00	45	90	135	180	225	270	280	290	315
DEC =	123	3	3	3	3	3	3	3	3	3	3
371.46	144		115			100					
378.55		160	141	107		205					
398.00	280		388			759					
425.10	322	398	592	921		1023					
443.82		436	688	907	956						
459.10	238	340	572	725	747						
472.37	-	374	-	315	-	317	-	305	-	306	
479.28	-	216	-	248	-	271	-	259	-	247	
500.00											- 337
516.37	-	147	-	173	-	167	-	102	-	65	
572.00	59	-	56	-	77	-	38	-	14		
756.73											- 157
774.92	224	171	13	-	42		5				
793.10		317	306		356		412				
811.28		304	305		356		399				
829.46	255	270	301		340		382				
847.64		217									
865.83	207										
930.19	-	99	-	87	-	57	-	22	-	1	
962.86		29	-	23		175	-	152	-	108	- 84
1187.65						89	-	22	-	22	

STA PHI = 22.5 67.5 112.5 157.5

STA PHI = 3 3 3 3
DEC = - 214 - 294 - 347 - 173

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TWT 77 BLOW 79

CONFIG E35 T16 C2 S3 K I B

TUNNEL CONDITIONS

TIME	ALPH	BN	HO	PO	M	G	TTO	RN	V
DEC 1	2		1	3	1	1	1	3	1
78	784	4764	12883	1505	20427	5385	10107	14203	
112	3	885	4728	12786	1505	20272	5379	10048	14194
145	406	984	4711	12741	1505	20202	5367	10043	14178
177	403	1081	4600	12441	1505	19726	5353	9840	14160

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APPENDIX A

TWT 77 BLOW 79

CONFIG E35 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/G

ALPHA

BN 784

STA	PHI=	00	45	90	135	180	225	270	280	290	315
DEC=		3	3	3	3	3	3	3	3	3	3
371.46		175	169								
378.55		177	169								
398.00		158	170	153	165						
425.10		304	303								
443.82		475	504	488	501	478					
459.10			598	594	597	584					
472.37		455	506	514	525	508					
479.28		-	311	-	327	-	325	-	323	-	317
500.00		-	244	-	264	-	254	-	259	-	256
516.37		-	137	-	138	-	140	-	135	-	128
572.00		-	45	-	50	-	53	-	46	-	47
756.73		-	265	140	107	115	112	112	112	112	112
774.92											
793.10											
811.28											
829.46											
847.64											
865.83											
930.19											
962.86											
1187.65											

STA PHI= 22.5 67.5 112.5 157.5

DEC= 3 3 3 3

1323.83

- 234 - 204 - 240 - 212

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TWT 77 BELOW 79

CONF1G E35 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

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TWT 77 BLOW 79

CONFIG E35 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA	3	BN	885								
STA	PHI=	00	45	90	135	180	225	270	280	290	315
DEC=	3	3	3	3	3	3	3	3	3	3	3
371.46	181	172	160	160	167						
378.55											
398.00		162	174	159	172						
425.10		309		322							
443.82		480	509	492	494	493					
459.10		602	597	605	591						
472.37		501	522	512	534	514					
479.28		-296	-302	-301	-298	-295	-296				
500.00		-212	-232	-221	-232	-222					
516.37		-130	-136	-142	-131	-123					
572.00		-36	-46	-49	-41	-42					
756.73		270	149	113	119	133					
774.92											
793.10		345	338	342	347						
811.28		326	323	330	333						
829.46		395	292	307	328	321					
847.64		317									
865.83		288									
930.19		-53	-46	-51	-50	-64					
962.86			-138	-137	-132	-128					
1187.65		-58	-61	-69	-51	-64					
1323.83		22.5	67.5	112.5	157.5						
	DEC=	3	3	3	3	3					

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TWT 77 BLOW 79

CONFIG E35 T16 C2 S3 K I B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA	406	BN	984								
STA	PHI =	00	45	90	135	180	225	270	280	290	315
DEC=	3	3	3	3	3	3	3	3	3	3	3
371.46	132	116	116	116	116	116	116	116	116	116	116
378.55	144	163	146	146	119	119	119	119	119	119	119
398.00		278		376		543		743		542	
425.10		345	428		543		743		837		422
443.82			472	613		816		877			
459.10			272	410	514	665		704			
472.37			-	345	-	306	-	299	-	293	
479.28			-	210	-	260	-	236	-	246	
500.00			-								- 312
516.37			-	151	-	156	-	156	-	121	- 156
572.00			-	32	-	56	-	65	-	44	- 131
756.73			229	165	36	-	20			95	- 156
774.92				324	323		360			32	
793.10				301	322		351			3	
811.28				267	272	309	340			374	
829.46				233						360	
847.64				216							
865.83				-	88	-	81	-	60	-	23
930.19					-						
962.86					-						
1187.65					28	-	82	-	23	-	46

STA

PHI = 22.5 67.5 112.5 157.5

STA	DEC=	3	3	3	3	3	3	3	3	3	3
1323.83	-	217	-	315	-	249	-	138			

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APPENDIX A

TWT 77 BLOW 80

CONFIG NOISE PROBE C2 S3 K 1 B

TUNNEL CONDITIONS

TIME	ALPH	BN	HO	PO	M	Q	TTO	RN	V
DEC 1	2			1	3	1	1	3	1
90 -	2	714	4763	12880	1505	20421	5360	10170	14169
132 -	2	839	4727	12782	1505	20267	5350	10119	14155

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APPENDIX A

TWT 77 BLOW 80

CONFIG NOISE PROBE C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA = 2 STA PHI= 00 BN 714

STA	PHI=	00	45	90	135	180	225	270	280	290	315
371.46	DEC=	3	3	3	3	3	3	3	3	3	3
378.55		227	218	218	227	227	227	227	227	227	227
398.00		218	222	230	225	231					
425.10		303	303	240	240	.238					
443.82		913	924	906	887	884					
459.10		900	887	893	883						
472.37		688	712	695	679	679					
479.28		-	331	-	343	-	339	-	326	-	326
500.00		-	324	-	328	-	320	-	316	-	320
516.37										-	67
572.00		-	173	-	174	-	172	-	171	-	166
756.73		-	50	-	56	-	56	-	50	-	49
774.92			262		112		64		72		94
793.10					346		341		340		347
811.28					338		337		345		344
829.46					441		310		322		328
847.64					341						
865.83					309						
930.19		-	61	-	41	-	44	-	55	-	63
962.86		-	49	-	55	-	71	-	48	-	67
1187.65		-									

STA PHI= 22.5 67.5 112.5 157.5

STA	PHI=	22.5	67.5	112.5	157.5
1323.83	DEC=	3	3	3	3
1323.83		- 203	- 167	- 207	- 170

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APPENDIX A

TRWT 77 BLOW 80

CONFIG NOISE PROBE C2 S3 K 1 B

PRESSURE COEFFICIENTS ($\Delta P / P$)

STA PH12 22:567:5 112:5 157:5

1323.83

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APPENDIX

TWT 77 BLOW 81

CONFIG NOISE PROBE C2 S3 K1 B

TUNNEL CONDITIONS

TIME	ALPH	BN	HO	PO	M	Q	TTO	RN	V
DEC 1	2		1	3	1	1	1	3	1
89 -	6	870	5976	7662	1998	21410	5341	10820	16878
130 -	3	991	5944	7621	1998	21295	5332	10786	16865

TWT 77 BLOW 81

CONFIG NOISE PROBE C2 S3 K 1 B

PRESSURE COEFFICIENTS (DEF TA B)

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APPENDIX

TWT 77 BLOW 81

CONFIG NOISE PROBE C2 S3 K1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA	- 3	BN	991									
STA	PHI =	00	45	90	135	180	225	270	280	290	315	
DEC =		3	3	3	3	3	3	3	3	3	3	
371.46	-	31	-	32	-	32	-	33	-	33	-	
378.55	-	35	-	37	-	31	-	49	-	40	-	
398.00	-	149	-	747	755	755	747	748	748	742	742	
425.10	-	827	846	853	863	863	856	856	856	856	856	
443.82	-	84	-	92	-	90	-	86	-	84	-	81
459.10	-	500.00	-	122	-	123	-	121	-	123	-	125
472.37	-	516.37	-	78	-	79	-	79	-	77	-	75
479.28	-	572.00	-	32	-	24	-	28	-	26	-	35
500.00	-	756.73	-	180	-	23	-	25	-	27	-	25
516.37	-	774.92	-	267	267	260	260	260	260	254	254	
572.00	-	793.10	-	277	267	267	267	261	261	260	260	
756.73	-	811.28	-	380	267	265	265	251	251	257	257	
774.92	-	829.46	-	277	249	249	249	249	249	249	249	
793.10	-	847.64	-	12	11	21	21	8	10	10	10	
811.28	-	865.83	-	5	-	65	-	71	-	73	-	71
829.46	-	930.19	-	5	-	20	-	23	-	16	-	26
847.64	-	962.86	-	1187.65	-							
865.83	-	962.86	-									
930.19	-											
962.86	-											
1187.65	-											

STA PHI = 22.5 67.5 112.5 157.5

STA	PHI =	3	3	3	3	3	3	3	3	3	3	
DEC =	-	37	-	20	-	53	-	35	-	35	-	
1323.83	-											

SID 62 929

APPENDIX A

TWT 77 BLOW 82

CONFIG E35 T16 C2 S3 K 1 B

TUNNEL CONDITIONS

	TIME	ALPH	BN	HO	PO	M	Q	TTO	RN	V	V
DFC 1	2				1		3		1		1
82	9	715	5831	7476	1998	20891		5332	10582	16865	
118	9	821	5849	7498	1998	20953		5327	10627	16856	
152	417	925	5865	7519	1998	21013		5322	10672	16848	
185	414	1023	5824	7466	1998	20863		5310	10630	16829	

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TWT 77 BLOW 82

CONFIG E35 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA	9	BN	715	180	225	270	280	290	315
STA	PHI=	00	45	90	135	180	225	270	315
	DEC=	3	3	3	3	3	3	3	3
371.46									
378.55									
398.00									
425.10									
443.82									
459.10									
472.37									
479.28									
500.00									
516.37									
572.00									
756.73									
774.92									
793.10									
811.28									
829.46									
847.64									
865.83									
930.19									
962.86									
1187.65									
STA	PHI=	22.5	67.5	112.5	157.5				
1323.83									

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TWT 77 BLOW 82

CONFIG E35 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA	9	BN	821	270	280	290	315
STA	PHI =	00	45	90	135	180	225
	DEC =	3	3	3	3	3	3
371.46		106	98	98	99	99	
378.55		92	99	124	101	124	
398.00		316	331	331	328	328	
425.10		514	546	543	566	551	
443.82		658	664	682	664	664	
459.10		612	646	624	644	631	
472.37	-	105	- 110	- 110	- 107	- 102	- 106
479.28	-	103	- 111	- 104	- 115	- 102	
500.00		74	- 72	- 72	- 72	- 68	
516.37		31	- 24	- 29	- 29	- 35	
572.00		173	- 30	- 27	- 29	- 25	
756.73		251	244	241	236		
774.92		262	249	245	249		
793.10		332	247	240	248	246	
811.28		266					
829.46		235					
847.64		22	24	17	1	3	
865.83							
930.19							
962.86							
1187.65	-	8	- 19	- 26	- 16	- 32	
STA	PHI =	22.5	67.5	112.5	157.5		
	DEC =	3	3	3	3		
1323.83	-	49	- 27	- 61	- 41		

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APPENDIX A

TWT 77 BLOW 82

CONF1G E35 T16 C2 S3 K I B

PRESSURE COEFFICIENTS ($\Delta P/P$)

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TWT 77 BLOW 82

CONFIG E35 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA	414	BN	1023	1023	225	270	280	290	315
STA	PHI =	00	45	90	135	180			
371.46	DEC =	3	3	3	3	3			
378.55		63	69						
398.00		73							
425.10									
443.82									
459.10									
472.37									
479.28									
500.00									
516.37									
572.00									
756.73									
774.92									
793.10									
811.28									
829.46									
847.64									
865.83									
930.19									
962.86									
1187.65									
STA	PHI =	22.5	67.5	1112.5	1577.5				
1323.83	DEC =	3	3	3	3				

TWT 77 BLOW 83

CONFIG E35 T16 C2 S3 K I B

TUNNEL CONDITIONS

TIME	ALPH	BN	HO	PO	M	M	Q	TTO	RN	V
DEC 1	2				1	3	1	1	3	1
80	-	402	849	5987	7675	1998	21447	5317	10907	16840
107	-	206	930	5950	7629	1998	21317	5292	10915	16800
136	899	1016	5954	7634	1998	21331	5269	10987	16764	
165	1275	1104	5937	7611	1998	21269	5251	11010	16734	

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TWT 77 BELOW 83

CONE13 E35 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

AI PHA = 002

1-
20 15 60 125 180 225 270 300 315

371.46

84 113 105 133

727

768 **742** **655** **526** **365**

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$$- 22 - 28 = 54 - 52 = 47$$

256 203 208 201

396 262 220 209 194

273

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SIA PHIE 22:3 6/1:3 112:3 137:3

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TWT 77 BLOW 83

CONFIG E35 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA	- 206	BN	930	90	135	180	225	270	280	290	315
STA	PHI =	00	45	90	135	180	225	270	280	290	3
DEC =	3	3	3	3	3	3	3	3	3	3	3
371.46		88		82		98		85			
378.55		78		122		98		133			
398.00			96		362			294			
425.10		436		583		506		427			
443.82		687	646		694	609		516			
459.10			745		665	593		484			
472.37		697	685		113	-	120	-	127	-	122
479.28		-	98	-	108	-	113	-	120	-	105
500.00		-	102	-	100	-	114	-	117	-	117
516.37											
572.00		-	63	-	64	-	77	-	91	-	82
756.73		-	27	-	24	-	34	-	36	-	39
774.92		-	183	-	27	-	32	-	37	-	28
793.10											
811.28											
829.46		364	255		244	236		222			
847.64			284		255	245		226			
865.83			257		257	237		228			
930.19			28		8	19	-	2	-	9	
962.86			-	4	-	15	-	42	-	29	-
1187.65											

STA PHI = 22.5 67.5 112.5 157.5

1323.83	3	3	3	3	3	3	3	3	3	3	3
56	-	125	-	103	-	101					

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TWT 77 BLOW 83

CONFIG E35 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA	899	BN	1016								
STA	PHI =	00	45	90	135	180	225	270	280	290	315
	DEC =	3	3	3	3	3	3	3	3	3	3
371.46		31									
378.55		70	-	27							45
398.00		129	91	112	112	112	112	112	112	112	487
425.10		245		534							998
443.82		311	341	681	922	922	922	922	922	922	331
459.10		418	706	920	920	920	920	920	920	920	1014
472.37		281	413	657	839	839	839	839	839	839	909
479.28		- 155	- 171	- 133	- 90	- 90	- 90	- 90	- 90	- 90	82
500.00		- 162	- 168	- 149	- 97	- 97	- 97	- 97	- 97	- 97	66
516.37		-	98	- 143	- 112	- 112	- 112	- 112	- 112	- 112	- 155
572.00		-	35	- 73	- 113	- 113	- 113	- 113	- 113	- 113	- 117
756.73		-	136	40	- 112	- 112	- 112	- 112	- 112	- 112	- 122
774.92					- 17	- 17	- 17	- 17	- 17	- 17	35
793.10					31	31	31	31	31	31	30
811.28					30	30	30	30	30	30	30
829.46											
847.64											
865.83											
930.19											
962.86											
1187.65											

STA PHI = 22.5 67.5 112.5 157.5

STA DEC = 3 3 3 3

STA DEC = - 91 - 60 - 128 - 56

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APPENDIX A

TWT 77 BLOW 83

CONFIG E35 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DEFLTA P)/Q

ALPHA	1275	BN	1104	90	135	180	225	270	280	290	315
STA	PHI=	00	45	3	3	3	3	3	3	3	3
	DEC=	28	40	-	58	137	169	1008	1128	1109	1125
371•46											
378•55											
398•00											
425•10											
443•82											
459•10											
472•37											
479•28											
500•00											
516•37											
572•00											
756•73											
774•92											
793•10											
811•28											
829•46											
847•64											
865•83											
930•19											
962•86											
1187•65											
	STA	PHI=	22•5	67•5	112•5	157•5					
		DEC=	3	3	3	3					
1323•83			- 197	- 127	- 210	- 86					

TWT 77 BLOW 84

CONFIG E35 T16 C2 S3 K I B

TUNNEL CONDITIONS

TIME	ALPH	BN	HO	PO	M	Q	TTO	RN	V
DEC 1	2	1250	6101	7822	1	3	1	3	1
96	192	1250	6101	7822	1998	21857	5269	11258	16764
129	197	1351	6092	7810	1998	21824	5251	11297	16734
163	598	1452	6059	7768	1998	21708	5228	11304	16699
197	595	1553	5926	7597	1998	21229	5208	11116	16666

TWT 77 BLOW 84

CONFIG E35 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

	ALPHA	192	BN	1250	90	135	180	225	270	280	290	290	315
STA	PHI=	00	45	85	3	3	3	3	3	3	3	3	3
	DEC=	3	3	80	104	125	90	90	125	125	125	125	125
371•46													
378•55													
398•00													
425•10													
443•82													
459•10													
472•37													
479•28													
500•00													
516•37													
572•00													
756•73													
774•92													
793•10													
811•28													
829•46													
847•64													
865•83													
930•19													
962•86													
1187•65													
STA	PHI=	22•5	67•5	221	6	12	12	12	12	12	12	12	15
	DEC=	3	3	-	71	-	72	-	63	-	63	-	59
1323•83		-	72	-	21	-	29	-	26	-	13	-	20

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APPENDIX A

TWT 77 BLOW 84

CONF1G E35 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

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TWT 77 BLOW

CONFIG E35 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA	STA	PHI#	BN	1452						
		DEC#	3	3	3	3	3	3	3	3
371.46		52								43
378.55		68								
398.00		126								229
425.10		268								828
443.82		337	428	425	425	425	425	425	425	424
459.10										
472.37		321	493	502	502	502	502	502	502	
479.28		-	154	-	145	-	145	-	145	
500.00		-	116	-	136	-	136	-	136	
516.37		-	98	-	114	-	114	-	114	
572.00		-	33	-	51	-	51	-	51	
756.73		-	144	-	44	-	44	-	44	
774.92										1
793.10										2
811.28										1
829.46										292
847.64										301
865.83										299
930.19		-	17	-	17	-	17	-	17	
962.86		-	30	-	53	-	53	-	53	
1187.65		-	30	-	53	-	53	-	53	

STA PHI# 22.5 67.5 112.5 157.5

STA

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STA	PHI#	3	3	3	3
1323.83	DEC# - 60	- 210	- 191	- 30	

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TWT 77 BLOW 84

CONFIG E35 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA	STA	PHI =	00	45	90	135	180	225	270	280	290	315
		DEC =	3	3	3	3	3	3	3	3	3	3
371.46	49		49	34								
378.55	67		67	122	89	98	226					
398.00					420			819				
425.10	267				653	860	929					
443.82	342		429									420
459.10			509		732	880	933					
472.37	327		477		666		805	853				
479.28			157	- 143	- 126	- 89	- 71	- 83				
500.00			- 114	- 133	- 122	- 91	- 84					
516.37			- 95	- 112	- 92	- 40	- 10					
572.00			- 32	- 51	- 67	- 18	- 2					
756.73			138	- 40	- 62	- 20	2					
774.92				194	182	257	290					
793.10				207	193	260	299					
811.28			220	203	196	252	301					
829.46			186									
847.64			176									
865.83												
930.19			- 16	- 22	- 5	26	51					
962.86				- 82	- 85	- 48	- 27					
1187.65			- 28	- 54	- 22	- 23	17					

STA PHI = 22.5 67.5 112.5 157.5

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1323.83 DEC = - 3 - 61 - 211 - 191 - 27

TWT 77 BLOW

85
CONFIG E40 T16 C2 S3 K I B

TUNNEL CONDITIONS

TIME	ALPH	BN	HO	PO	M	Q	TTO	RN	V
DEC 1	2				1	1	1	3	1
79	203	785	6072	7785	1998	21754	5321	11054	16846
115	208	894	6064	7774	1998	21725	5268	11195	16762
146	611	987	6073	7785	1998	21755	5249	11267	16732
179	608	1086	6044	7748	1998	21652	5228	11275	16699

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APPENDIX A

TWT 77 BLOW 85

CONFIG E40 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (ΔP)/Q

ALPHA 203 BN 785

STA 841 = 00 45 90 135 180 225 270 280 290 290 315

M DEC 11

378.55 65 62 69

479
413
203
55.10

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9.28 - 154 = 132 - 119 = 112 - 123 = 1

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210
64

7
3.19.14
21
14
20

7.65 - 21 - 29 - 26 - 14 - 22

PHI = 22.5 67.5 112.5 157.5

22 DECEMBER 2000

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TWT 77 BLOW 85

CONFIG E40 T16 C2 S3 K I B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA	208	BN	894								
STA	PHI =	00	45	90	135	180	225	270	280	290	315
DEC =	3	3	3	3	3	3	3	3	3	3	3
371.46	55	79	69	48	159	150	69				
378.55					413	413	199				
398.00					576	648	491				
425.10		195	258	394	664	716					
443.82				470	623	683	722				
459.10				440	623	683	671				
472.37			263	139	-	116	-	101	-	95	-
479.28			-	156	-	116	-	101	-	101	
500.00			-	62	-	109	-	110	-	90	-
516.37			-	66	-	86	-	88	-	66	-
572.00			-	31	-	32	-	33	-	28	-
756.73			-	159	-	34	-	28	-	30	-
774.92			-							30	-
793.10					231	239		243		247	
811.28					245	240		249		257	
829.46					255	240		249		262	
847.64						249		253			
865.83											
930.19											
962.86											
1187.65											

STA PHI = 22.5 67.5 112.5 157.5

1323.83

DEC = 3 3 3 3 3

- 64 - 43 - 47 - 33

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TWT 77 BLOW 85
CONFIG E40 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA	611	BN	987								
STA	PHI =	00	45	90	135	180	225	270	280	290	315
	DEC =	3	3	3	3	3	3	3	3	3	3
371.46		31									
378.55		55									
398.00		58									
425.10		165									
443.82		203									
459.10		320									
472.37		383									
479.28		156									
479.28		189	-	177	-	114	-	83	-	71	-
500.00		49	-	172	-	120	-	101	-	95	-
516.37		68	-	133	-	104	-	38	-	7	-
572.00		32	-	50	-	82	-	22	-	4	-
756.73		139	-	44	-	77	-	25	-	1	-
774.92											
793.10											
811.28											
829.46											
847.64											
865.83											
930.19											
962.86											
1187.65											

302

361

STA	PHI =	22.5	67.5	112.5	157.5
	DEC =	3	3	3	3
1323.83		-63	-210	-193	-37

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TWT 77 BLOW 85

CONFIG E40 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA	608	BN	1086
STA	PHI =	00	45
	DEC#	3	3
371.46		30	35
378.55		43	79
398.00		60	223
425.10		165	499
443.82		209	334
459.10		379	703
472.37		146	377
479.28	-	198	177
500.00	-	48	172
516.37	-	66	132
572.00	-	34	102
756.73	-	140	46
774.92	-	197	74
793.10		213	113
811.28		201	118
829.46		195	104
847.64		162	104
865.83		141	93
930.19	-	19	53
962.86	-	26	53
1187.65	-	19	41

PHI = 22.5 67.5 112.5 157.5

STA	PHI =	3	3	3
	DEC#	-	209	- 192 - 39
1323.83		63		

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TWT 77 BLOW 86

2ND REDUCTION

CONFIG E40 T16 C2 S3 K I B

TUNNEL CONDITIONS

TIME	ALPH	BN	HO	P0	M	Q	TTO	RN	V
DEC 1	2			1	3	1	1	3	1
67	- 407	657	6110	7833	1998	21890	5298	11188	16810
94	- 206	740	6065	7775	1998	21726	5278	11165	16778
123	900	826	6085	7801	1998	21800	5262	11249	16753
152	1269	913	6068	7780	1998	21739	5249	11258	16732

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APPENDIX A

TWT 77 BLOW 86 2ND BED

CONCLUDING PAGES 63

PRESSURE COEFFICIENTS (ΔP) / 0

1323.83

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TWT 77 BLOW 86 2ND RED

CONFIG E40 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA	900	BN	826									
STA	PHI =	00	45	90	135	180	225	270	280	290	290	315
DEC =	3	3	3	3	3	3	3	3	3	3	3	3
371•46	9	58	85	85	13	221	189	108	108	108	108	108
378•55												
398•00												
425•10		154			545							
443•82		184	300	695	973	1038						
459•10			342	756	931	1009						
472•37		118	323	717	863	921						
479•28		- 179	- 195	- 121	- 99	- 84						
500•00		- 85	- 191	- 150	- 119	- 89						
516•37		-	62	- 174	- 111	- 16	34					
572•00		-	37	- 68	- 116	- 13	28					
756•73		-	143	22	- 116	- 18	31					
774•92												
793•10				151	95	269	339					
811•28				163	90	262	343					
829•46			202	161	85	251	340					
847•64			162									
865•83		143										
930•19		-	39	- 48	- 48	29	82					
962•86			-	- 114	- 110	- 45	3					
1187•65		-	27	- 43	3	- 34	46					

STA PHI = 22.5 67.5 112.5 157.5

STA	PHI =	3	3	3	3	3	3
DEC =	- 75	- 61	- 118	-	58		
1323•83							

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TWT 77 BLOW 87

CONFIG E40 T16 C2 S3 K I B

TUNNEL CONDITIONS

TIME	ALPH	BN	HO	PO	M	Q	TTO	RN	V	V
DEC 1	2				1	3	1	1	3	1
69	8	800	6111	7835	1998	21893	5280	11246	16781	
105	9	908	6070	7782	1998	21745	5262	11221	16753	
139	416	1012	6077	7790	1998	21770	5249	11274	16732	
173	411	1112	6037	7740	1998	21628	5237	11237	16713	

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TWT 77 BLOW 87

CONIC E40 T16 C2 S3 K 1 8

PRESSURE COEFFICIENTS (DELTAB) / 0

ALPHA	8	BN	800								
STA	PHI =	00	45	90	135	180	225	270	280	290	315
DEC =	3	3	3	3	3	3	3	3	3	3	3
371.46	75	68	68	60	60	69					
378.55			78	106	86	108					
398.00		249		279							
425.10		403	442	456	470	447					
443.82			548	560	577	570					
459.10		465	532	555	574	547					
472.37			- 123	- 149	- 147	- 145					
479.28			- 135	- 142	- 135	- 141					
500.00											
516.37											
572.00			- 84	- 81	- 83	- 84					
756.73			- 38	- 39	- 41	- 42					
774.92		170	- 36	- 34	- 40	- 32					
793.10			243	242	242	235					
811.28			262	249	242	245					
829.46		325	255	237	243	250					
847.64		258									
865.83		241									
930.19		16	17	22	13	12					
962.86			- 67	- 77	- 74	- 69					
187.65			- 15	- 27	- 35	- 39					

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TWT 77 BLOW 87

CONFIG E40 T16 C2 S3 K I B

PRESSURE COEFFICIENTS (DELTA P)/Q

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TWT 77 BLOW 87

CONFIG E40 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA	416	BN	1012								
STA	PHI =	00	45	90	135	180	225	270	280	290	315
DEC =	3	3	3	3	3	3	3	3	3	3	3
371.46	33										
378.55	67										
398.00	62										
425.10	175										
443.82	227	359	619	749	810						
459.10	416	409	692	800	866						
472.37	162	-	652	745	795						
479.28	-	171	-	117	-	90	-	78	-	82	
500.00	-	42	-	136	-	115	-	89	-	82	
516.37											1
572.00	-	64	-	109	-	94	-	54	-	36	
756.73	-	32	-	38	-	48	-	26	-	19	
774.92	-	151	-	34	-	41	-	29	-	15	
793.10		235		223		253		275			
811.28		239		227		257		287			
829.46		217		232		224		250		279	
847.64		174									
865.83		163									
930.19		-	13	-	11	8	15			30	
962.86		-	82	-	74	-	57	-		46	
1187.65		-	16	-	35	-	30	-	8		3

STA PHI = 22.5 67.5 112.5 157.5

1323.83
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TWT 77 BLOW 87

CONFIG E40 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA	411	BN	1112								
STA	PHI =	00	45	90	135	180	225	270	280	290	315
371•46		40		40		40					83
378•55		56		55	197	177		272			
398•00		177		476				656			
425•10		218	356	613	745		797				321
443•82			424	683	804		860				
459•10			179	410	642	755		796			
472•37			- 184	- 160	- 115	- 87	- 77	- 84			
479•28			- 41	- 131	- 112	- 83	- 81				2
500•00			- 62	- 108	- 92	- 54	- 35				- 169
516•37			- 31	- 35	- 47	- 23	- 17				
572•00			153	- 34	- 40	- 27	- 13				
756•73				232	222	254		273			
774•92				240	231	254		287			
793•10				219	234	229	253	278			
811•28				181							
829•46				171							
847•64				930•19	- 9	- 8	8	10	23		
865•83				962•86	-	80	- 73	- 55	- 43		
1187•65				1187•65	- 18	- 36	- 29	- 8	4		

STA PHI = 22.5 67.5 112.5 157.5

1323.83

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TWT 77 BLOW 88

CONFIG C2 S3 K I B

TUNNEL CONDITIONS

	TIME	ALPH	BN	HO	PO	M	Q	TTO	RN	V	1
DEC	1	2	3	1	3	1	1	1	3	1	1
69	2	818	6114	7838	1998	21903	5283	11241	16786		
104	3	921	6073	7786	1998	21758	5269	11207	16764		
138	408	1024	6083	7799	1998	21794	5256	11266	16743		
170	408	1121	6046	7751	1998	21659	5245	11227	16726		

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TWT 77 BLOW 88

CONFIG C2 S3 K I B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA	STA	PHI =	BN	921	779	773	770	280	290	315
		DEC =	3	3	3	3	3	3	3	3
371.46	1661	1661	737	823	781	786	777			
378.55			00	45	90	135	180	225	270	
398.00										
425.10			785		798					
443.82			776	782	796	795	773			
459.10				791	798	787	791			
472.37			755	775	779	793	790			
479.28			- 103	- 110	- 109	- 108	- 104	- 98		
500.00			- 152	- 151	- 150	- 150	- 152			
516.37								46		
572.00			- 92	- 89	- 91	- 88	- 83			
756.73			- 34	- 27	- 31	- 29	- 38			
774.92			180	- 31	- 25	- 30	- 27			
793.10				265	257	255	257			
811.28				267	265	256	253			
829.46			384	261	252	240	253			
847.64										
865.83			247							
930.19			5	8	12	1	- 8			
962.86			- 5	- 20	- 23	- 14	- 26			
1187.65										

STA PHI = 22.5 67.5 112.5 157.5

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STA PHI = 3 3 3 3
DEC = - 41 - 27 - 65 - 42

TWT 77 BLOW 88

CONFIG C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA	408	BN	1024								
STA	PHI =	00	45	90	135	180	225	270	280	290	315
STA	DEC =	3	3	3	3	3	3	3	3	3	3
371.46	1663	588	768	768	765	876	908				
378.55											
398.00		731									
425.10		660									
443.82		660	687	784	878	911					
459.10			697	786	870	927					
472.37		644	705	768	865	893					
479.28		- 124	- 128	- 110	- 93	- 83	- 81				
500.00		- 175	- 167	- 147	- 127	- 121					
516.37		- 124	- 118	- 95	- 61	- 40					
572.00		- 39	- 47	- 47	- 18	- 19					
756.73		- 144	- 45	- 42	- 21	- 14					
774.92		217	230	267	278						
793.10		230	231	261	291						
811.28		335	223	222	260	287					
829.46		249									
847.64		218									
865.83		- 6	- 14	1	9	21					
930.19		- 3	- 42	- 30	- 13	- 1					
962.86											
1187.65											

STA PHI = 22.5 67.5 112.5 157.5

STA

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STA

STA PHI = 3 3 3 3 3

STA

STA PHI = - 70 - 176 - 79 - 21

TWT 77 BELOW 88

CONFIG C2 S3 K I B

PRESSURE COEFFICIENTS (ΔP)/Q

ALPHA 408 BN 1121

PHI = 00 45 90 135 180 225 270 280 290 315

371.46 **1657** **769** **900**
378.55 **588** **771** **825**

692

4722.37	649	696	761	857	903
4729.28	- 128	- 130	- 109	- 91	- 84
500.00	- 172	- 165	- 105	- 137	- 115
500.00	- 172	- 165	- 105	- 137	- 115
					- 206

- 105

146	-	40	-	41	-	21	-	13
774.92								
793.10		219		229		265		277
811.28		231		229		261		285

829.46
847.64
865.83
333
218
222
257
281

930.19 - 962.86 - 187.65

STA PHI = 22.5 67.5 112.5 157.5

3233.83 DEC = - 71 - 178 - 75 - 23

1323.83

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TWT 77 BLOW 89

CONFIG E40 T16 C2 S3 K 1 B

TUNNEL CONDITIONS

TIME	ALPH	BN	HO	PO	M	Q	TTO	RN	V
DEC 1	2		1	3	1	1	1	3	1
78	8	891	8437	4984	2494	21702	5309	12160	18803
112	8	992	8454	4994	2494	21746	5281	12276	18755
145	412	1092	8431	4981	2494	21687	5262	12307	18721
179	409	1195	8356	4936	2494	21493	5249	12243	18697

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CONCLUDING COMMENTS

PRESSURE COEFFICIENTS (DETAILED)

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APPENDIX A

TWT 77 BLOW 89

CONFIG E40 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA	B	BN	992	225	270	280	290	315
STA	PHI =	00	45	90	135	180		
	DEC =	3	3	3	3	3	3	3
371.46		48	52					
378.55		44	66	92	70	50		
398.00		277	263			88		
425.10		476	485	460	439	236		
443.82						412		
459.10		615	646	602	572	555		
472.37		-	16	-	22	-	52	
479.28		-	44	-	45	-	35	
500.00		-						
516.37		-	53	-	50	-	53	
572.00		-	29	-	24	-	52	
756.73		-	117	-	26	-	35	
774.92								
793.10								
811.28								
829.46								
847.64								
865.83								
930.19		29	19	33	28	28		
962.86		-	11	-	21	-	33	
1187.65		-					27	

STA PHI = 22.5 67.5 112.5 157.5

380

SID 62 929
APPENDIX A

1323.83

TWT 77 BLOW 89

CONCLUDING REMARKS 18

ESPRESSO COFFEE ICIENTS (DE) TA B1/0

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THEORY AND PRACTICE IN THE FIELD OF CULTURAL HERITAGE 11

31A FMI = 66 43 38

DEC = 3

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48 398.00 158

443-82 203 298 600

459.10 385 694

~~479,28~~ = 66 = 69 = 24

500.00 = 28 = 78 = 53

572.00 - 48 = 74 - 59

138.13 = 34 = 31 = 41

159 151 10 793.

111.00 830 46 169 168 175 172

847.64 131

14 14 14 14 14 14 14 14 14

$$= 54 = 52$$

51A PHL# 22.3 87.3 112.3

DEC= 3 3 3 3

61 = 46 = 31 = 58.52

STD 62 929
APPENDIX A

TWT 77 BLOW 89

CONFIG E40 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA	409	BN	1195
STA	PHI =	00	45
	DEC =	3	3

276

1382

SID 62 929
APPENDIX

TWT 77 BLOW 90

CONFIG E40 T16 C2 S3 K I B

TUNNEL CONDITIONS

TIME	ALPH	BN	HO	P0	M	Q	TTO	RN	V
DEC 1	2			1	3	1	1	3	1
75	206	940	8503	5023	2494	21871	5305	12266	18797
110	206	1045	8446	4990	2494	21725	5286	12247	18764
143	612	1144	8439	4985	2494	21706	5276	12271	18746
176	608	1245	8396	4960	2494	21597	5264	12250	18724

383

SID 62 929
APPENDIX A

TWT 77 BLOW 90

CONIC EAN TIE C2 S3 K 1 B

EFFICIENCIES (DELTAP) / Q

ALPHA 206 BN 940

STA PHI = 00 45 90 135 180 DEC = 3 3 3 3 3 3 3 3 3 3

371.46	35	40	53
378.55	48	130	108
398.00	58	130	108

327

425•10		172		363		439	
443•82		255	366	547	631	618	
459•10			477	661	712	704	
472•37		339	506	674	730	712	
479•28			—	65	—	32	—
500•00			—	64	—	74	—
							— 107
							35
							64

516•37						- 71
572•00	-	58	-	64	-	47
756•73	-	41	-	39	-	25
774•92	97	-	40	-	32	-
793•10						21
811•28						21
						208
						204
						203

829•48	187	201	215	229	243	257	271	285	299	313	327	341
847•64	167											
865•83		152										
930•19		19	17	27	29	34						
962•86			—	51	53	44	—					
1187•65				—	35	27	32	—				

STA PHI = 22.5 67.5 112.5 157.5

$$83 = -29 - 26 = -$$

SID 62 929

APPENDIX A

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PRESSURE COEFFICIENTS (DETAILED)

SID 62 929
APPENDIX

APPENDIX

TWT 77 BLOW 90

CONFIG E40 T16 C2 S3 K I B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA	612	BN	1144
STA	PHI =	00	45
	DEC =	3	3
371•46	27	35	57
378•55	49	53	191
398•00	138	486	129
425•10	176	284	421
443•82	349	629	812
459•10	180	373	838
472•37	-	706	875
479•28	85	85	706
500•00	-	98	855
516•37	-	40	893
572•00	-	45	892
756•73	-	36	892
774•92	-	82	892
793•10	-	128	892
811•28	-	148	892
829•46	-	145	892
847•64	-	116	892
865•83	-	106	892
930•19	-	2	892
962•86	-	21	892
1187•65	-	47	892

STA PHI = 22.5 67.5 112.5 157.5

1323.83

SID 62 929
APPENDIX A

90

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PRESSURE COEFFICIENTS (ΔP)/Q

ALPHA 698 EN 1245

756.73	-	35	-	47	-	56	-	7	13
774.92	85	-	47	-	56	-	10	14	
793.10	128	-	126	-	215	215	251		
811.28	151	134	212	212	246	246			
829.46	144	155	127	207	207	244			
847.64	119								
865.83	111								
930.19	-	1	-	8	-	3	34	64	
962.86	-	-	71	-	63	-	22	2	
1187.65	-	-	46	-	3	-	32	12	

STA PH1 = 22.05 67.05 112.05 1157.05

DEC = - 16° - 130' - 116" 3' 9" 3' 6" 1323.83

TWT 77 BLOW 91

CONFIG E40 T16 C2 S3 K I B

TUNNEL CONDITIONS

TIME	ALPH	BN	BN	HO	PO	M	Q	TTO	RN	V
DEC 1	2				1	3	1	1	3	1
64	-	410	1370	8481	5010	2494	21814	5314	12206	18812
91	-	217	1449	8453	4994	2494	21743	5298	12217	18785
120	891	1537	8452	4993	2494	21741	5285	12262	18761	
148	1272	1622	8449	4991	2494	21732	5278	12280	18749	

REV'T 77 BLOW 91

ONEIG EAQ T16 C2 S3 K 1 8

APRESSIVE COEFFICIENTS (DETAILED)

188

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371-46

80 253 144 781
3398.00

443•82

472•37 138 346 700 866 969

5000 **5000** **5000** **5000** **5000**

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36

93.10 **88** **94** **228** **293**

8229.46 154 112 82 232 301

8865.83 105

PMI = 3.0222 8/05 2011/05/01

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APPENDIX A

TWT 77 BELOW 91

CONCLUDING REMARKS 1

ANNEE SUIVEURE COEFFICIENTS (DELTAB)^{1/2}

ALPHA	1272	BN	1622
STA	PHI =		
	DEC =		
371•46	36	113	218
378•55	27	200	232
398•00			283
425•10	87	460	1064
443•82	105	221	1061
459•10		642	1050
472•37	86	288	950
479•28	-	329	1111
500•00	-	633	948
516•37	-	948	1096
572•00	-	57	34
756•73	-	24	56
774•92	-	58	34
793•10	-	-	-
811•28	-	-	-
829•46	-	-	-
847•64	-	-	-
865•83	-	-	-
930•19	-	-	-
962•86	-	-	-
1187•65	-	-	-
STA	PHI =		
	DEC =		

SID '62 929

APPENDIX A

TWT 77 BLOW 92

CONFIG E35 T16 C2 S3 K 1 B

TUNNEL CONDITIONS

TIME	ALPH	BN	HO	PO	M	Q	TTO	RN	V
DEC 1	2				1	3	1	3	1
73 - 407	853	8445	4989	2494	21721	5326	12114	18833	
103 - 215	942	8473	5006	2494	21794	5310	12206	18806	
131 889	1028	8440	4986	2494	21710	5303	12181	18794	
158 1273	1107	8406	4966	2494	21623	5295	12161	18779	

393

SID 62 929

APPENDIX A

TWT 77 BLOW 92

CONFIG E35 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

STA	ALPHA	PHI =	DEC =	BN	853	180	225	270	280	290	315
371•46	- 407	00	45	90	135	3	3	3	3	3	3
378•55		25	18	30	35						
398•00		751	48	129	111	143					
425•10		795	772	680	561	414					
443•82		799	783	694	634	483					
459•10					668	480					
472•37		- 1	- 33	- 59	- 61	- 68	- 65				
479•28		-	59	- 74	- 80	- 103	- 67				
500•00							4				
516•37		- 20	- 26	- 48	- 79	- 74					
572•00		- 17	- 24	- 44	- 43	- 38					
756•73		135	- 25	- 41	- 40	- 29					
774•92											
793•10											
811•28											
829•46											
847•64											
865•83											
930•19											
962•86											
1187•65											
STA	PHI =	22•5	67•5	112•5	157•5						
	DEC =	3	3	3	3						
		- 56	- 139	- 179	- 125						

394

SID 62 929

APPENDIX A

TWT 77 BLOM 92

CONCLUDING REMARKS 18

PRESSURE COEFFICIENTS (DETAILED)

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$$73 - 21 = 52$$

10 169
11 175
12 176
13 186

• 46
280 200 185
- - 183 182

197
83

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SIA 111-22-5 67.5 112.5 157.5

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APPENDIX A

TWT 77 BELOW 92

2

CONFIG E35 T16 C2 S3 K I B

PRESSURE COEFFICIENTS (DELTAP)/C

ALPHA	889	BN	1028								
STA	PHI =	00	45	90	135	180	225	270	280	290	315
DEC =	3	3	3	3	3	3	3	3	3	3	3
371•46	30	-	2								
378•55	62	-	2								
398.00	100	129	106	66	66	66	66	66	66	66	66
425.10	212	533	533	903	903	903	903	903	903	903	903
443.82	276	365	602	874	874	874	874	874	874	874	874
459.10	441	640	640	878	878	878	878	878	878	878	878
472.37	320	458	632	857	857	857	857	857	857	857	857
479.28	-	53	77	43	20	43	25	25	25	25	25
500.00	-	70	97	-	-	-	-	-	-	-	-
516.37	-	78	90	-	60	9	48	-	92	-	92
572.00	-	37	71	-	75	1	39	-	65	-	76
756.73	-	93	45	-	74	-	43	-	43	-	43
774.92	-	77	86	-	229	229	229	229	229	229	229
793.10	-	98	95	-	231	231	231	231	231	231	231
811.28	-	100	90	-	238	238	238	238	238	238	238
829.46	181	100	-	-	-	-	-	-	-	-	-
847.64	134	-	-	-	-	-	-	-	-	-	-
865.83	120	-	-	-	-	-	-	-	-	-	-
930.19	-	13	-	30	-	24	62	62	62	62	62
962.86	-	27	-	83	-	83	-	83	-	83	-
187.65	-	3	-	6	-	6	-	6	-	6	-

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APPENDIX A

TWT 77 BLOW 92

CONF16 E35 T16 C2 S3 V 1 8

PRESSURE COEFFICIENTS (DETAILED)

Algebra 127

ECC =

184 60 75 184

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17
THE INFLUENCE OF THE CULTURE OF THE PUPILS ON THE TEACHING OF MATHEMATICS

437	279	642	978	1113
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— = 147

$\frac{1}{2} \times 100 = 50$ $\frac{1}{2} \times 22 = 11$ $\frac{1}{2} \times 88 = 44$

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16 45 16 45
16 45 16 45

398 **398** **398** **398**

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SID 62 929
APPENDIX A

TWT 77 BLOW 93

CONFIG E35 T16 C2 S3 K I B

TUNNEL CONDITIONS

TIME	ALPH	BN	HO	M	Q	TTO	RN	V
DEC 1	2			1	3	1	3	1
71	192	1106	8463	5000	2494	21770	5329	12130
105	190	1207	8450	4992	2494	21736	5317	12150
139	595	1309	8433	4982	2494	21691	5305	12165
171	593	1405	8385	4954	2494	21569	5295	12131
								18779

CONFIDENTIAL

TWT 77 BLOW 93

CONFIG E35 T16 C2 S3 K I B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA 192 BN 1106

STA	PHI =	00	45	90	135	180	225	270	280	290	315
371•46	DEC#	3	3	3	3	3	3	3	3	3	3
378•55		37									
398•00		33									
425•10											
443•82											
459•10											
472•37											
479•28											
500•00											
516•37											
572•00											
756•73											
774•92											
793•10											
811•28											
829•46											
847•64											
865•83											
930•19											

STA	PHI =	00	45	90	135	180	225	270	280	290	315
399	DEC#	3	3	3	3	3	3	3	3	3	3
4											
593											
637											
693											
679											
608											
557											
386											
524											
110											
129											
103											
715											
685											
743											

STA	PHI =	00	45	90	135	180	225	270	280	290	315
930	DEC#	3	3	3	3	3	3	3	3	3	3
179											
8											
7											
32											
30											
32											
962•86											
1187•65											
-											
26											
-											
38											
-											
30											
-											
36											
-											
31											
-											
11											
-											
42											
-											
67											

STA PHI = 22.5 67.5 112.5 157.5

SID 62 929
APPENDIX A

1323•83

TWT 77 BLOW 93

:CONNECT E35 T1€ C3 S3 K 1 B

PRESSURE COEFFICIENTS (DELTAB)/0

ALPHA	595	BN	1309								
STA	PHI=	00	45	90	135	180	225	270	280	290	315
371•46											
378•55											
398•00		54	105	22	22	24					
425•10		269			113	68	337				
443•82		354	477	636	796	841					
459•10											
472•37		390	575	675	806	876					
479•28		-	51	-	54	-	35	-	2	19	4
500•00		-	48	-	83	-	60	-	22	-	14
516•37										-	103
572•00		-	78	-	79	-	48	-	8	12	7
756•73		-	32	-	49	-	50	-	11	8	
774•92			104	-	45	-	49	-	11	13	
793•10					122	127	205	229			
811•28					136	134	213	251			
829•46					203	140	131	213	254		
847•64					155						
865•83					142						
930•19					5	-	10	10	49	69	
962•86					-	57	-	60	-	20	
1187•65					-	22	-	46	19	-	30

SID 62 929
APPENDIX A

TWT 77 BLOW 93

CONFIG E35 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA	593	BN	1405								
STA	PHI =	00	45	90	135	180	225	270	280	290	315
	DEC =	3	3	3	3	3	3	3	3	3	3
371•46		21		23		26					
378•55		43		97	117	70	334				
398•00			272		502		792				
425•10				348	487	634	794	843			
443•82					565	676	803	864			
459•10					390	584	673	806	869		
472•37					58	52	34	-	3	19	3
479•28					47	-	81	-	57	-	12
500•00											- 103
516•37											
572•00											
756•73											
774•92											
793•10											
811•28											
829•46											
847•64											
865•83											
930•19											
962•86											
1187•65											

STA PHI = 22.5 67.5 112.5 157.5

STA	PHI =	3	3	3	3
	DEC =	- 24	- 118	- 108	16
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SID 62 929

APPENDIX A

TWT 77 BLOW 94

CONFIG E35 T16 C2 S3 K I B

TUNNEL CONDITIONS

	TIME	ALPH	BN	HO	P0	M	Q	TTO	RN	RN	V
DEC 1	2	2	722	8449	4992	2494	21733	5336	12087	18851	1
68	-	2	825	8456	4996	2494	21752	5322	12142	18827	
103	-	2	825	8456	4989	2494	21721	5310	12165	18806	
138	403	930	8445	4966	2494	21624	5305	12128	18797		
171	401	1031	8407								

TWT 77 BLOW 94

CONFIG E35 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA	-	2	BN	722								
STA	PHI =	00	45	90	135	180	225	270	280	290		315
	DEC =	3	3	3	3	3	3	3	3	3		3
371.46		40		39								
378.55		37		100	133	109	136					
398.00		494		503								
425.10												
443.82		675	655	676	647	657						
459.10			730	744	717	728						
472.37		723	723	739	742	739						
479.28		20	56	58	50	51	56					
500.00		101	91	100	95	110						
516.37												
572.00		59	-	56	-	57	-	58	-	57		
756.73		-	40	-	35	-	36	-	32	-	39	
774.92			111	-	34	-	29	-	32	-	31	
793.10					186	193	197					
811.28					205	198	205					
829.46		270	203	198								
847.64		208										
865.83		190										
930.19			22	18	30	15						
962.86		-	18	-	54	-	53	-	54	-	53	
1187.65					29	-	26	-	35	-	37	

STA PHI = 22.5 67.5 112.5 157.5

1323.83

SID 62 929
APPENDIX A

TWT 77 BLOW 94

CONFIDENTIAL 16 E35 T16 C2 S3 K 1 8

PRESSURE COEFFICIENTS (DETAILED)

ALPHA 401

PHI =

ECC II

113 136 78 228

4-30 **561** **603** **761** **781**

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= 75 - 71 = 42 - 18 = 6 - 26 = 26 - 58 = 58

$$1 \quad 16 \quad - \quad 35 \quad - \quad 33 \quad - \quad 14 \quad = \quad 4$$

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SID 62 929

TWT 77 BLOW 95

CONFIG SHORT NOISE PROBE C2 S3 KIB

TUNNEL CONDITIONS

TIME ALPH BN HO PO M Q TTO RN V

DEC	1	2	3	1	3	1	1	3	1	
85	-	2	606	8498	5021	2494	21860	5332	12168	18845
123	-	2	721	8467	5002	2494	21779	5319	12169	18821

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SID 62 929
APPENDIX A

TWT 77 BELOW 95

CONFIG SHORT NOISE PROBE C2 S3 KIB

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA	-	2	BN	606	STA	PHI =	00	45	90	135	180	225	270	280	290	315
					DEC =	3	3	3	3	3	3	3	3	3	3	3
371•46	-	57														
378•55	-	39	-	29	-	33	-	27	-	33	-	34				
398•00																
425•10		532														
443•82		734		731		717		711		705						718
459•10				849		858		838		831						
472•37		813		836		824		835		815						
479•28	-	8	-	27	-	27	-	25	-	25	-	24				
500•00	-	86	-	82	-	83	-	84	-	84	-	88				
516•37																
572•00	-	56	-	50	-	51	-	50	-	51	-	51				
756•73	-	33	-	26	-	27	-	24	-	24	-	31				
774•92		120	-	29	-	22	-	24	-	24	-	26				
793•10				207		209		208		208		198				
811•28				227		226		219		219		212				
829•46		310		222		216		221		221		212				
847•64				230												
865•83				210												
930•19				32		26		30		19		25				
962•86	-	19	-	29	-	24	-	24	-	33	-	47				
1187•65												33	-	33		
STA	PHI =	22.5		67.5		112.5		157.5								
	DEC =	3		3		3		3				3				
1323.83																

TWT 77 BLOW 95

CONFIG SHORT NOISE PROBE C2 S3 K1B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA = 2 BN

721

STA	PHI =	00	45	90	135	180	225	270	280	290	290	315
	DEC =	3	3	3	3	3	3	3	3	3	3	3
371•46	- 54				48	-						50
378•55	- 49				43	-	47	-				49
398•00	-	50	-				27	-				45
425•10	466	-										
443•82	731	730			715	710						720
459•10	808	836			825							
472•37	- 8	- 14	-		15	-						
479•28	- 71	- 67	-		67	-						
500•00												
516•37												
572•00	- 53	- 47	-		47	-						
756•73	- 28	- 20	-		23	-						
774•92	124	-			25	-						
793•10					205							
811•28					225							
829•46	314	222			219							
847•64	230				217							
865•83	208											
930•19	34	22			31							
962•86	- 16	- 27	-		20	-						
1187•65												

410

STA	PHI =	22.5	67.5	112.5	157.5							
	DEC =	3	3	3	3	3	3	3	3	3	3	3
1323•83	- 6	- 12	-	11	-	29						

SID 62 929

APPENDIX A

TWT 77 BLOW 96

CONFIG SHORT NOISE PROBE C2 S3 KIB

TUNNEL CONDITIONS

TIME	ALPH	BN	HO	PO	M	G	TTO	RN	V
DEC 1	2			1	3	1	1	3	1
81	-	8	607	8458	4997	2494	21757	5336	12100
119	-	6	720	8470	5004	2494	21786	5324	12156

411

SID 62 829
APPENDIX A

TWT 77 BLOW 96

CONFIG SHORT NOISE PROBE C2 S3 K1B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA = - 8 BN 607

STA	PHI =	00	45	90	135	180	225	270	280	290	315
	DEC =	3	3	3	3	3	3	3	3	3	3
371.46	-	56	-	29	-	29	-	35	-	35	
378.55	-	25	-	23	-	25	-	35	-	30	
398.00											
425.10		540			26					20	
443.82		729		725	715		712		702		
459.10										711	
472.37		804		825	822		835		820		
479.28				7	-	29	-	29	-	24	
500.00				-	89	-	85	-	86	-	
516.37											
572.00					-	57	-	52	-	51	
756.73						-	36	-	29	-	
774.92							-	118	-	24	
793.10								204		211	
811.28								-	222	-	
829.46									219		
847.64									216		
865.83									204		
930.19										208	
962.86											
1187.65											

STA	PHI =	22.5	67.5	112.5	157.5
	DEC =	3	3	3	3
1323.83	-	29	-	34	-

412

SID 62 929

APPENDIX A

TWT 77 BLOW 96

CONFIG SHORT NOISE PROBE C2 S3 KIB

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA - 6 BN

720

STA	PHI =	00	45	90	135	180	225	270	280	290	315
371.46	-	56	-	49	-	49	-	50			
378.55	-	51	-	41	-	40	-	49	-	48	
398.00											44
425.10		464									726
443.82		732		727		719		715		704	
459.10				852		859		840		831	
472.37		813		834		823		835		821	
479.28				9		15		16		14	
500.00				71		67		68		69	
516.37											63
572.00				53		47		48		46	
756.73				30		23		24		19	
774.92				123		25		20		12	
793.10						207		208		21	
811.28								206		21	
829.46				313		219		221		222	
847.64				229				214		218	
865.83										213	
930.19				208							
962.86											
1187.65											
STA	PHI =	22.5		67.5		112.5		157.5			
DEC =		3		3		3		3			
1323.83		- 8		- 12		- 10		- 28			

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SID 62, 929

APPENDIX A

TWT 77 BLOW 97

CONFIG SHORT NOISE PROBE C2 S3 KIB

TUNNEL CONDITIONS

TIME	ALPH	BN	HO	PO	M	Q	TTO	RN	V
DEC 1	2				1	3	1	1	3
110	-	9	814	8467	5002	2494	21780	5317	12175
173	-	6	1003	8375	4948	2494	21542	5303	12087

414

SID 62 929
APPENDIX A

TMI 22 BIL MO 97

CONFIG SHORT NOISE PROBE C2 S3 K18

PRESSURE COEFFICIENTS (DELTA P/V)

ALPHA	-	9	BN	814
STA	PHI =	00	45	90
	DEC =	3	3	3
371•46	-	61	-	
378•55	-	44	-	45
398•00	-	43	-	41
425•10	487	-	-	22
443•82	731	731	717	710
459•10	855	855	856	833
472•37	810	832	825	832
479•28	-	8	-	16
500•00	-	72	-	68
516•37	-	54	-	47
572•00	-	30	-	23
756•73	-	122	-	24
774•92	-	205	-	20
793•10	-	231	-	21
811•28	-	311	-	220
829•46	229	-	-	220
847•64	-	206	-	217
865•83	-	930•19	-	217
962•86	-	29	-	21
1187•65	-	19	-	29
STA	PHI =	22.5	67.5	112.5
SID	DEC =	3	3	3
APP	1323•83	-	9	-

SID 62 999

TWT 77 BLOW 97

CONFIG SHORT NOISE PROBE C2 S3 K1B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA - 6 BN 1003

STA	PHI =	00	45	90	135	180	225	270	280	290	315
	DEC =	3	3	3	3	3	3	3	3	3	3
371•46	-	56	-	46	-	53	-	50	-	50	
378•55	-	54	-	53	-	47	-	53	-	50	
398•00		396	-	46	-	46	-	49	-	49	723
425•10		729	729	718	709	709	702				
443•82		854	858	839	839	839	835				
459•10		810	830	826	834	820					
472•37		9	12	13	10	9	8				
479•28		67	-	64	-	65	-	70	-	66	
500•00		52	-	45	-	46	-	45	-	16	
516•37		28	-	21	-	22	-	18	-	21	
572•00		124	-	21	-	18	-	20	-	21	
756•73		209	213	209	213	209	209	197			
774•92		228	226	228	226	224	224	216			
793•10		314	221	224	217	217	217	213			
811•28		229	207								
829•46		31	23	32	25	25	24				
847•64		45	-	43	-	42	-	43			
865•83		14	-	25	-	19	-	29	-	28	
930•19											
962•86											
1187•65											
1323•83	STA	PHI =	22.5	67.5	112.5	157.5					
		DEC =	3	3	3	3	3	3	3	3	
			-	-	-	-	-	-	-	-	

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SID 62 929

APPENDIX A

TWT 77 BLOW 98

CONFIG SHORT NOISE PROBE C2 S3 KIB

TUNNEL CONDITIONS

	TIME	ALPH	BN	HO	P0	M	G	TTO	RN	V
DEC 1		2			1	3	1	1	3	1
120	-	8	881	10869	2898	3014	18426	5327	11909	20318
183	-	8	1068	10736	2862	3014	18199	5305	11837	20275

TWT 77 BLOW 98

CONFIG SHORT NOISE PROBE C2 S3 K1B

PRESSURE COEFFICIENTS (DELTA P)/Q

STA	PHI =	00	45	90	135	180	225	270	280	290	315
ALPHA	-	8	BN	1068							
DEC#		3	3	3	3	3	3	3	3	3	3.
371•46	-	51									
378•55	-	43	-	38	-	32	-	39	-	41	
398.00											
425.10		537	-	23	-						
443.82		693	691	692	695	695	689				
459.10		825	840	840	829	829	821				
472.37		800	818	817	827	827	813				
479.28		25	19	18	21	21	23	20			
500.00	-	40	-	35	-	38	-	37	-		
516.37											
572.00	-	35	-	28	-	28	-	27	-	27	
756.73	-	10	-	12	-	13	-	13	-	10	
774.92		107	-	12	-	10	-	12	-	5	
793.10				171	176	176	176	176	176	177	
811.28				206	194	194	197	197	197	196	
829.46				260	201	194	197	197	197	197	
847.64				204							
865.83				183							
930.19				39	29	48	32	32	30		
962.86				-	28	-	25	-	24	-	27
1187.65	-			15	-	21	-	14	-	23	-
STA	PHI =	22.5	67.5	112.5	157.5						
DEC#		3	3	3	3						
1323.83		21	-	6	11	-					
SID											
APPENDIX											
A											

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APPENDIX A

TWT 77 BLOW 99

CONFIG C2 S3 K I B

TUNNEL CONDITIONS

TIME	ALPH	BN	HO	PO	M	Q	TTO	RN	V
DEC 1	2			1	3	1	1	3	1
79	3	685	10886	2902	3014	18454	5343	11875	20347
112		786	10868	2897	3014	18423	5314	11954	20292
145	408	884	10846	2891	3014	18386	5298	11982	20262
176	401	978	10797	2878	3014	18303	5285	11974	20236

TWT 77 BLOW 99

CONF 16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA 3 BN 685

STA	PHI =	00	45	90	135	180	225	270	280	290	315
371.46	DEC =	1772									
378.55		3	3	3	3	3	3	3	3	3	3
398.00		610									
425.10		709									
443.82		702									
459.10		715									
472.37		699									
479.28		733	-	14	-	14	-	10	-	11	-
500.00		-	78	-	74	-	75	-	74	-	79
516.37		-									
572.00		-	42	-	37	-	37	-	37	-	36
756.73		-	17	-	20	-	21	-	19	-	17
774.92		-	95	-	16	-	17	-	18	-	14
793.10		-									
811.28		177									
829.46		254									
847.64		190									
865.83		168									
930.19		30									
962.86		-									
1187.65		-	22	-	28	-	22	-	29	-	27

STA PHI = 22.5 67.5 112.5 157.5

DEC = -3 -3 -3 -3

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DEC

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APPENDIX A

TWT 77 BLOW 99

CONFIG C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA	STA	PHI =	BN	786	225	270	280	290	315
		DEC =	3	3	3	3	3	3	3
371.46		1771	629						
378.55		610		629					
398.00			716	700	709	699			
425.10		704		715		715			
443.82		707	713	714	716	708			
459.10			717	726	717	710			
472.37		691	713	710	720	712			
479.28		20	2	1	5	5			
500.00		-	57	-	54	-	54		
516.37							12		
572.00		-	36	-	31	-	32	-	30
756.73		-	11	-	14	-	14	-	13
774.92		-	100	-	11	-	12	-	12
793.10									8
811.28									10
829.46		252	181	178	178	177			
847.64		188							
865.83		166							
930.19		28	24	41	24	24			
962.86		-	32	-	30	-	31	-	33
1187.65		-	16	-	22	-	16	-	23

422

STA PHI = 22.5 67.5 112.5 157.5

1323.83

DEC =

3 3 3 3 3

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APPENDIX A

TWT 77 81 04 88

CONE 16 C2 S3 K 1 B

BRESCELLE COEFFICIENTS (DETAILED)

ALPHA	408	BN	884								
STA	PHI =	00	45	90	135	180	225	270	280	290	315
371•46	DEC =	1762	637	694	802	842	850	846	844	842	840
378•55		474	629	707	808	846	850	846	844	842	840
398•00		582	615	707	808	846	850	846	844	842	840
425•10		578	617	711	813	844	850	846	844	842	840
443•82		568	611	701	814	845	850	846	844	842	840
459•10		- 2	- 15	3	30	42	32	32	32	32	32
472•37		-	-	-	-	-	-	-	-	-	-
479•28		- 79	- 69	- 49	- 24	- 14	-	-	-	-	-
500•00		-	-	-	-	-	-	-	-	-	-
516•37		-	-	-	-	-	-	-	-	-	-
572•00		- 62	- 51	- 31	- 5	8	15	15	15	15	15
756•73		- 27	- 29	- 20	-	-	-	-	-	-	-
774•92		58	- 29	- 19	- 1	-	-	-	-	-	-
793•10		136	153	197	225	220	214	210	206	202	198
811•28		152	159	193	220	216	212	208	204	200	196
829•46		233	149	149	190	214	210	206	202	198	194

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APPENDIX A

TWT 77 BLOW 99

CONFIG C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA 401 BN

STA	PHI =	00	45	90	135	180	225	270	280	290	315
378.55	DEC =	1758	3	3	3	3	3	3	3	3	3
398.00		479	641	641	641	641	641	641	641	641	641
425.10		583	631	690	798	841					
443.82		581	621	707	707	846					
459.10			618	712	809	845					
472.37		571	622	702	806	847					
479.28		- 10	- 15	3	31	43	32				
500.00		- 79	- 69	- 49	- 23	- 15					
516.37		- 62	- 50	- 30	- 4	9					
572.00		- 26	- 29	- 19	- 2	14					
756.73		60	- 29	- 19	- 2	16					
774.92		137	155	192	221						
793.10		154	157	191	222						
811.28		235	151	151	189	214					
829.46		171									
847.64		137									
865.83											
930.19		12	10	32	35	43					
962.86		- 13	- 38	- 19	- 18	2					
1187.65											
124											

STA PHI = 22.5 67.5 112.5 157.5

STA	PHI =	00	45	90	135	180	225	270	280	290	315
1323.83	DEC =	- 3	3	3	3	3	3	3	3	3	3
		- 21	- 78	- 14	12						

SID 62 929

APPENDIX A

TWT 77 BLOW 100

CONFIG E35 T16 C2 S3 K 1 B

TUNNEL CONDITIONS

	TIME	ALPH	BN	HO	PO	M	Q	TTO	RN	V	
DEC	1										1
77	-	404	705	10893	2904	3014	18465	5426	11607	20506	
114	-	196	817	10853	2893	3014	18397	5379	11720	20415	
145	903	908	10871	2898	3014	18429	5353	11825	20367		
180	1266	1015	10807	2881	3014	18320	5334	11818	20331		

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SID 62 929
APPENDIX A

TWT 77 BLOW 100

CONFIG E35 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P) / Q

STA	ALPHA	- 404	BN	705	135	180	225	270	280	290	315
STA	PHI =	00	45	90	3	3	3	3	3	3	3
STA	DEC =	3	3	3	3	3	3	3	3	3	3
371.46		18		30		28					
378.55		19		42	125	78	104				
398.00					523		287				
425.10		669				540	426				
443.82		717	726	620							
459.10			742	659	620	518					
472.37		769	764	659	631	550					
479.28		60	5	- 16	- 27	- 17	- 30				
500.00		- 19	- 37	- 49	- 75	- 61					
516.37		-	7	- 9	- 28	- 50	- 61				
572.00		-	6	- 18	- 35	- 37	- 36				
756.73		-	112	- 18	- 33	- 34	- 29				
774.92											
793.10											
811.28											
829.46											
847.64											
865.83											
930.19											
962.86											
1187.65											
426											
STA	PHI =	22.5	67.5	112.5	157.5						
STA	DEC =	3	3	3	3	3	3	3	3	3	3
1323.83		- 44	- 101	- 127	- 96						

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APPENDIX A

TWT 77 8700 100

CONEIG E35 T16 C2 S3 K 1 B

ABERRATION COEFFICIENTS (DETAILED)

ALPHA	-	196	BN	817
STA	PHI =	00	45	90
	DEC =	3	3	3
371.46		25	23	25
378.55		20	20	25
398.00		79	129	98
425.10	608		536	395
443.82	677	649	646	571
459.10		694	682	643
472.37	713	716	675	668
479.28	40	14	1	3
500.00	-	13	-	28
516.37		11	-	-
572.00	-	13	-	23
756.73	-	11	-	18
774.92	100	-	15	-
793.10		141	131	141
811.28		155	139	150
829.46	224	161	143	146
847.64		174		149
865.83		167		
930.19	46	37	35	15
962.86	-	11	-	24
1187.65	-	18	-	19
STA	PHI =	22.5	67.5	112.5
1323.83	DEC =	3	3	3
		- 4	- 36	- 23
				- 44

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APPENDIX

TWT 77 BLOW 100

CONCLUDING REMARKS 1 B

BIBESUBI COEFFICIENTS (DELTAP)/Q

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APPENDIX A

TWT 77 BLOW 100

CONFIG E35 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA 1266 BN 1015

STA	PHI =	00	45	90	135	180	225	270	280	290	315
371.46	DEC =	3	3	3	3	3	3	3	3	3	3
378.55	-	12	39	133	61	222	165				
398.00		112	294	152	524	990	1085				
425.10				204	604	997	1161				
443.82					247	635	1011	1191			
459.10						109	163	112			
472.37							113				
479.28								- 91			
500.00									- 80		
516.37										- 54	
572.00											- 65
756.73											
774.92											
793.10											
811.28											
829.46											
847.64											
865.83											
930.19											
962.86											
1187.65											
429	STA	PHI =	22.5	67.5	112.5	157.5					
1323.83	DEC =	3	3	3	3	3	3				
		- 85	- 82	- 48	- 53						

SID 62 929

APPENDIX A

TWT 77 BLOW 101

CONFIG E35 T16 C2 S3 K 1 B

TUNNEL CONDITIONS

TIME	ALPH	BN	HO	PO	M	Q	TTO	RN	V
DEC 1	2			1	3	1	1	3	1
77	-	9	1106	10867	2897	3014	18421	5379	11735
111	-	8	1209	10873	2898	3014	18431	5338	11878
146	403	1314	10858	2894	3014	18405	5317	11931	20298
180	401	1415	10801	2879	3014	18309	5300	11926	20266

TWT 77 BLOW 101

CONFIG E35 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA - 9 BN 1106

STA	PHI =	00	45	90	135	180	225	270	280	290	315
371.46	DEC =	3	3	3	3	3	3	3	3	3	3
378.55		24	25	25	25	25	25	24	24	24	24
398.00		25	99	146	103	129	129	129	129	129	129
425.10		520	520	535	535	504	504	504	504	504	504
443.82		651	604	647	615	642	642	642	642	642	642
459.10		652	686	656	656	669	669	669	669	669	669
472.37		677	669	684	673	682	682	682	682	682	682
479.28		39	3	-18	-4	-12	-13	-13	-13	-13	-13
500.00		-58	-36	-55	-43	-59	-59	-59	-59	-59	-59
516.37											
572.00		-30	-25	-24	-24	-27	-27	-27	-27	-27	-27
756.73		-20	-20	-21	-21	-21	-21	-21	-21	-21	-21
774.92		92	-21	-19	-19	-19	-19	-19	-19	-19	-19
793.10		148	144	144	144	149	149	149	149	149	149
811.28		153	150	151	151	148	148	148	148	148	148
829.46		206	158	151	151	151	151	151	151	151	151
847.64		165	148	148	148	148	148	148	148	148	148
865.83											
930.19		34	26	37	27	26	26	26	26	26	26
962.86		-	31	-	27	-	29	-	29	-	29
1187.65		-	14	-	18	-	24	-	24	-	24
STA	PHI =	22.5	67.5	112.5	112.5	157.5	157.5	157.5	157.5	157.5	157.5
431	DEC =	3	3	3	3	3	3	3	3	3	3
1323.83		-28	-37	-32	-32	-47	-47	-47	-47	-47	-47

SID 62 929

APPENDIX A

TWT 77 BLOW 101

CONIE 16 E35 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

432

SID 62 929
APPEN A A

INTRODUCTION 101

CONFERENCES 1 8

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA 403

DATA OUT = 00 A5 00 135 180 225 270 280 290 315

371.46 23

425.10 511 214 683 683

459.10 606 656 751 768

470-28 500-25

29
1
8
11
11
500.00

572.00 - 57 - 42 - 19 - 9 - 1 - 29

774.92 85 = 26 - 27 = 10 5

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829.46

865.83 134

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1187.65

STA PH1 = 22°5' 67°5' 112°5' 157°5'

DECEMBER 1963 VOL 36 / NO 12

$$1323.83 - 17 = 88 \quad = 14 \quad 13$$

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TWT 77 BLOW 101

CONFIG E35 T16 C2 S3 K 1 B
PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA 401 BN 1415

STA PHI = 00 45 90 135 180 225 270 280 290 315
DEC= 3 3 3 3 3 3 3 3 3 3

371•46

378•55 22 22 22 22 28

398•00 30 83 125 62 330

425•10 277 512 682

443•82 404 532 619 737 729

459•10 409 609 656 749 767

472•37 518 637 660 765 793

479•28 7 - 7 5 30 51 26

500•00 - 25 - 47 - 20 - 3 12 40

516•37 - 57 - 42 - 20 1 10

572•00 - 24 - 27 - 27 - 9 4

756•73 - 86 - 25 - 27 - 9 7

774•92 119 116 154 179

793•10 126 123 169 193

811•28 189 130 126 174 199

829•46 153 137

847•64 20 6 29 44 60

865•83 14 - 32 - 30 - 12 - 3

930•19 31 16 - 18 - 1

962•86 1187•65 22.5 67.5 112.5 157.5

STA PHI = 22.5 67.5 112.5 157.5

STA PHI = 22.5 67.5 112.5 157.5

SID 1323.83

- 16 - 92 - 15 14

62 929

APPENDIX A

TWT 77 BLOW 102

CONFIG E35 T16 C2 S3 K 1 B

TUNNEL CONDITIONS

TIME	ALPH	BN	HO	PO	M	Q	TTO	RN	V
DEC 1	2		1		1	1	1	3	1
80	192	692	10871	2898	3014	18429	5353	11825	20367
113	194	790	10855	2894	3014	18402	5317	11928	20298
146	597	890	10860	2895	3014	18410	5298	11998	20262
180	595	991	10785	2875	3014	18282	5283	11967	20233

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TWT 77 BELOW 102

CONFIG E35 T16 C2 S3 K I B

PRESSURE COEFFICIENTS (DELTAP)/Q

ALPHA 192 BN 692
STA PHI = 00 45 90 135 180 225 270 280 290 315

DEC=	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
371•46	23	28	28	74	74	21									
378•55	25	91	128			175									
398•00	373	524				612									
425•10	552	575	645	662	678										
443•82		646	678	700	711										
459•10															
472•37	634	661	680	723	730										
479•28	35	-	18	-	19	-	4	6	-	14					
500•00	-	68	-	61	-	55	-	43	-	43					
516•37											15				
572•00	-	52	-	41	-	29	-	20	-	14	-	3	-	35	
756•73	-	27	-	28	-	26	-	23	-	20					
774•92		84	-	26	-	24	-	22	-	16					
793•10			130	133	142	154									
811•28		153	137	152	160										
829•46	206	152	140	159	168										
847•64		160													
865•83	150														
930•19	20	16	38	38	38	42									
962•86	-	38	-	30	-	21	-	20	-	20					
1187•65	-	31	-	22	-	22	-	29	-	29					

BHU = 33-E 67-5 112-5 157-5

1323.83

SID 62 929
APPENDIX A

TWT 77 BLOW 102

CONFIG E35 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA 194

BN 790

STA	PHI =	00	45	90	135	180	225	270	280	290	315
371.46	DEC =	3	3	3	3	3	3	3	3	3	3
378.55		23	25	26	26	26	26	26	26	26	20
398.00		91	132	73	177						
425.10		369	525								613
443.82		550	571	649	665	678					563
459.10		646	674	702	710						
472.37		635	665	678	723	728					
479.28		22	1				15	27	12		
500.00		- 42	- 36	- 29	- 17	- 14					
516.37											48
572.00		- 47	- 35	- 23	- 13	- 6					3
756.73		- 21	- 20	- 19	- 16	- 13					- 29
774.92		92	- 18	- 18	- 17	- 10					
793.10		133	132	141	151						
811.28		150	138	154	162						
829.46		207	149	139	156	168					
847.64		161									
865.83		146									
930.19		18	17	35	36	39					
962.86		-	32	- 24	- 15	- 14					
1187.65		- 16	- 24	- 17	- 23	- 16					
STA	PHI =	22.5	67.5	112.5	157.5						
1323.83	DEC =	3	3	3	3	3					

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SD 62 929
APPENDIX

TWT 77 BELOW 1002

CONFIG E35 T16 C2 S3 K I B

PRESSURE COEFFICIENTS (DELTA P)/Q

SID 62° 929
APPENDIX

TWT 77 BLOW 102

CONFIG E35 T16 C2 S3 K I B

PRESSURE COEFFICIENTS (DELTA P)/Q

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TA PHI = 00 45 90 135 180 225 270 280 290 315

DEC = .46 .55 26 43 3 3 3 3 3 3 3 3 3 3 3

•437

•37 - 395 582 647 800 878
•28 - 6 - 14 7 51 74 49

— 5 —
— 42 —
— 17 —
— 31 —

•46 •64 •83 •121 •136 •171 •99 •105 •191 •233

•19	13	3	16	54	76
•86	-	38	-	41	4
•65	-	42	37	-	23

TA PHI = 22.5 67.5 112.5 157.5

DEC = - 16 - 76 - 84 24 3 .83

THE JOURNAL OF CLIMATE

THE HISTORY OF THE CHURCH OF ENGLAND

SID 62,929

APPENDIX

A

TWT 77 BLOW 103

CONFIG E40 T16 C2 S3 K I B

TUNNEL CONDITIONS

TIME	ALPH	BN	HO	PO	M	Q	TTO	RN	V
DEC 1	2			1	3	1	1	3	1
83	205	1038	10878	2900	3014	18440	5339	11878	20341
118	203	1141	10872	2898	3014	18429	5310	11970	20285
152	604	1243	10863	2896	3014	18414	5297	12006	20259
185	604	1344	10819	2884	3014	18340	5283	12005	20233

TWT 77 BLOW 103

CONFIG E40 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA 203 BN 1141

STA	PHI =	00	45	90	135	180	225	270	280	290	315
DEC =	3	3	3	3	3	3	3	3	3	3	3
371•46	34	38	38	38	38	38	38	38	38	38	43
378•55	40	57	117	94	94	94	94	94	94	94	134
398•00	172	329	329	329	329	329	329	329	329	329	432
425•10	264	276	522	522	522	522	522	522	522	522	594
443•82	378	649	649	649	649	649	649	649	649	649	673
459•10	394	431	694	736	736	736	736	736	736	736	712
472•37	7	7	20	20	20	20	20	20	20	20	24
479•28	-24	-18	-21	-21	-21	-21	-21	-21	-21	-21	-45
500•00	-	-	-	-	-	-	-	-	-	-	-
516•37	-	38	-35	-35	-35	-35	-35	-35	-35	-35	30
572•00	-	26	-24	-24	-24	-24	-24	-24	-24	-24	-25
756•73	-	78	-22	-22	-22	-22	-22	-22	-22	-22	-25
774•92	-	123	-19	-19	-19	-19	-19	-19	-19	-19	-6
793•10	-	139	153	153	153	153	153	153	153	153	156
811•28	-	148	164	164	164	164	164	164	164	164	168
829•46	166	148	148	148	148	148	148	148	148	148	173
847•64	136	129	129	129	129	129	129	129	129	129	156
865•83	30	20	32	32	32	32	32	32	32	32	34
930•19	-	15	-27	-27	-27	-27	-27	-27	-27	-27	-20
962•86	-	15	-15	-15	-15	-15	-15	-15	-15	-15	-14
1187•65	-	-	-	-	-	-	-	-	-	-	-

142

STA PHI = 22.5 67.5 112.5 157.5

STA

STA	PHI =	3	3	3	3	3	3	3	3	3	3
DEC =	3	3	3	3	3	3	3	3	3	3	3
1323.83	-17	13	-12	-12	-12	-12	-12	-12	-12	-12	-12

SID 62 929 APPENDIX A

TWT 77 BLOW 103

CONFIG E40 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA	604	BN	1243									
STA	PHI =	00	45	90	135	180	225	270	280	290	290	315
	DEC =	3	3	3	3	3	3	3	3	3	3	3
371.46		28			27							66
378.55		45			174			102				70
398.00			56			472						758
425.10			112									
443.82		143	222		649		822					
459.10			280		717		793					
472.37		140	322	710	799							
479.28		-	30	-	45	7	29		57	29		
500.00		-	19	-	62	-	43	-	11	15		
516.37											-	17
572.00		-	28	-	71	-	30	17	33	-	-	30
756.73		-	32	-	35	-	40	-	2	15		
774.92		-	54	-	34	-	39	-	7	17		
793.10					89		101		170			208
811.28					114		108		175			209
829.46			106		118		94		172			213
847.64			86									
865.83		74										
930.19		-	2	-	7	7						75
962.86		-	19	-	44	-	22	-	28	11		15
1187.65												
STA	PHI =	22.5	67.5	112.5	157.5							
	DEC =	3	3	3	3							
1323.83		-	4	-	75	-	60					43

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SID 62 928
APPENDIX A

TWT 77 BLOW 103

CONIC EAO T16 C2 S3 K 1 B

PROSPECTIVE COEFFICIENTS (DELTAP)/Q

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APPENDIX

TWT 77 BLOW 104

CONFIG E40 T16 C2 S3 K 1 B

TUNNEL CONDITIONS

TIME	ALPH	BN	HO	PO	M	Q	TTO	RN	V
DEC 1	2			1	3	1	1	3	1
87	8	816	10867	2897	3014	18421	5336	11877	20334
120	9	916	10866	2897	3014	18420	5310	11963	20285
154	416	1018	10837	2889	3014	18371	5298	11972	20262
188	412	1120	10745	2864	3014	18214	5283	11923	20233

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INTRODUCTION 104

CONIG EA0 T16 C3 S3 K 1 8

PRESSURE COEFFICIENTS (DELTA P)/Q

STA	PHI =	9	BN	916							
STA	PHI =	00	45	90	135	180	225	270	280	290	315
	DEC =	3	3	3	3	3	3	3	3	3	3
371•46		36	33	38							
378•55		36	62	89	62	90					
398•00		258		284							
425•10		463	485	503	527	530					
443•82		626	644	656	653						
459•10		652	686	691	717	699					
472•37		34	22	23	25	27	24				
479•28		-	19	-	16	-	19	-	20		
500•00		-	37	-	34	-	31	-	28		
516•37		-	15	-	16	-	16	-	15	-	
572•00		-	100	-	17	-	14	-	15	-	
756•73		-									
774•92											
793•10											
811•28											
829•46		211	164	162	165	164					
847•64		172									
865•83		160									
930•19		31	24	40	25	25					
962•86		-	15	-	19	-	15	-	22	-	
11187•65											
STA	PHI =	22.5	67.5	112.5	157.5						
	DEC =	3	3	3	3						
1323•83		8	-	3	4	-	15				

SID 62 929

APPENDIX A

TWT 77 BLOW 104

CONF1G E40 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (ΔP)/Q

AI PHA 416 BN 1018

315
290
280

371.46	DEC =	33	3	3	3	3	3	3	3
378.55		41			33				36

233

54 - **54**

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STA 8913 22.5 67.5 112.5 157.5

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TWT 77 BLOW 104

CONF1G E40 T16 C2 S3 K I B

EXPRESSIVE COEFFICIENTS / DEITALIA 01/0

ALPHA	412	BN	1120
STA	PHI =		
DEC =	3	3	
371.46	00	45	90
378.55	33	3	135
398.00	39	3	180
425.10	53	3	225
443.82	141	3	270
459.10	197	3	280
472.37	243	3	290
479.28	247	3	315
500.00	327	3	37
516.37	382	3	39
572.00	-	24	35
756.73	-	29	37
774.92	-	28	37
793.10	-	25	37
811.28	65	-	37
829.46	-	24	37
847.64	111	-	37
865.83	129	-	37
930.19	123	-	37
962.86	99	-	37
1187.65	89	-	37
	11	15	37
	11	15	54
	41	-	54
	35	-	54
	20	-	54
	19	-	1
	19	-	1

DATA PHI = 22.5 67.5 112.5 157.5

323.83

SD 62 929
APPENDIX A

TWT 77 BLOW 105

CONFIG E40 T16 C2 S3 K 1 B

TUNNEL CONDITIONS

TIME	ALPH	BN	HO	PO	M	Q	TTO	RN	V
DEC 1	2			1	3	1	1	3	1
86	-	393	835	10903	2906	3014	18482	5344	11888
120	-	192	939	10861	2895	3014	18411	5321	11923
155	915	1043	10831	2887	3014	18360	5305	11942	20275
187	1278	1139	10810	2882	3014	18324	5295	11954	20256

TWT 77 BLOW 105

CONFIG E40 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA - 393 BN 835

STA PHI = 00 45 90 135 180 225 270 280 290 315

DEC = 3 3 3 3 3 3 3 3 3 3

30 41 56 79 150

32 94 133 56 79 150

614 406 271 209

701 685 598 271 209

729 710 357 252

758 751 721 419 264

53 12 2 35 51 50

- 28 - 36 - 53 - 66 - 60

- 28 - 36 - 53 - 66 - 60

- 28 - 36 - 53 - 66 - 60

- 28 - 36 - 53 - 66 - 60

- 28 - 36 - 53 - 66 - 60

- 28 - 36 - 53 - 66 - 60

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ST 62 929

APPENDIX

TWT 77 BLOW 105

CONFIG E40 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA 915 BN 1043

STA	PHI =	00	45	90	135	180	225	270	280	290	315
DEC =		3	3	3	3	3	3	3	3	3	3

371.46	14	52									136
378.55	43										
398.00		127	211	162							745
425.10	90		490								910
443.82	115	229	611	853							208
459.10		288	645	842							
472.37	123	339	633	863							
479.28	-	24	-	52	-	4	58	96	61		
500.00	-	48	-	76	-	39	20	57			
516.37	-	28	-	82	-	20	34	68			
572.00	-	28	-	49	-	50	9	45			
756.73	-	62	-	47	-	52	6	48			
774.92		51		69		197		267			
793.10		63		78		203		282			
811.28		124		70		212		291			
829.46		102									
847.64		87									
865.83											
930.19	-	10	-	25	-	2	76	122			
962.86		-	17	-	1	-	54	12	37		
1187.65							14	-	11		
									37		

STA PHI = 22.5 67.5 112.5 157.5

DEC =	3	3	3	3	3
	- 26	- 21	- 17	50	

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APPENDIX A

TWT 77 BLOW 105

CONFIG E40 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA	1278	BN	1139								
STA	PHI =	00	45	90	135	180	225	270	280	290	315
	DEC =	3	3	3	3	3	3	3	3	3	3
371•46		77	103								
378•55		30	193	204	258	277					
398•00				395							
425•10		65									
443•82		86	187	577	951	1037					
459•10			269	612	953	1105					
472•37		74	320	608	975	1159					
479•28		-	53	-	8	93	140	100			
500•00		-	61	-	47	50	114				
516•37		-	43	-	100	-					
572•00		-	34	-	71	-	35	64	109	-	68
756•73		-	62	-	37	-	67	27	91		
774•92		-		-	5	39	236	340			
793•10					12	39	245	362			
811•28					136	18	43	253	368		
829•46					108						
847•64					86						
865•83											
930•19		-	27	-	40	-	19	89	163		
962•86		-		-	64	-	69	25	81		
1187•65		-	44	-	68	-	68	12	88		

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STA PHI = 22.5 67.5 112.5 157.5

STA	PHI =	22.5	67.5	112.5	157.5						
	DEC =	3	3	3	3						
1323•83		-	86	-	83	-	37	53			

SID 62 929

APPENDIX A

TWT 77 BLOW 106

CONFIG SHORT NOISE PROBE C2 S3 KIB

TUNNEL CONDITIONS

TIME	ALPH	BN	HO	PO	M	Q	TTO	RN	V	V
DEC 1		2			1	3	1	1	3	1
87	-	654	14038	1929	3467	16231	5367	12059	21339	
130	-	6784	113839	1902	3467	16001	5321	12049	21247	

TWT 77 BLOW 107

CONFIG E40 T16 C2 S3 K 1 B

TUNNEL CONDITIONS

TIME	ALPH	BN	HO	PO	M	Q	TTO	RN	V
DEC 1	2		1	3	1	1	1	3	1
99	-	6	824	14042	1930	3467	16236	5346	12134
144	-	6	958	13776	1893	3467	15928	5305	12048

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TWT 77 BLOW 107

CONFIG E40 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA - 6 BN 824

STA	PHI =	00	45	90	135	180	225	270	280	290	315
371•46	DEC=	3	3	3	3	3	3	3	3	3	3
378•55		30	36	62	85	61	83	30	30	30	30
398•00		285	285	264	264	264	264	278	278	278	278
425•10		507	512	488	488	510	499	514	514	514	514
443•82		669	653	660	660	660	647				
459•10		709	733	710	731	712					
472•37		75	37	39	39	39	43	40	40	40	40
479•28		-	17	-	10	-	11	-	13	-	14
500•00		-	-	-	-	-	-	-	-	-	-
516•37		-	-	-	-	-	-	-	-	-	-
572•00		-	26	-	23	-	21	-	23	-	19
756•73		-	9	-	9	-	10	-	8	-	9
774•92		92	-	11	-	8	-	10	-	7	
793•10		125	132	133	133	133	132				
811•28		142	142	145	145	145	140				
829•46		184	154	147	147	147	147				
847•64		156	141								
865•83											
930•19		32	28	45	28	31					
962•86		-	22	-	18	-	17	-	17		
1187•65		-	10	-	14	-	8	-	14	-	10
STA	PHI =	22.5	67.5	112.5	157.5						
DEC=		3	3	3	3						
1323•83		7	-	7	7	-	14	-	14		

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APPENDIX A

INT 77 BLOW 107

CONVERGENCE TESTS 1 8

COFFEE IDEAS / COFFEE INGENIUS / COFFEE INNOVATION

ALPHA	-	6	BN	958
STA	PHI =	00	45	90
	DEC =	3	3	3
371.46		37		
378.55		33	40	33
398.00		57	85	61
425.10		293	264	277
443.82		522	517	487
459.10		669	649	660
472.37		713	723	703
479.28		60	45	47
500.00	-	8	2	1
516.37		23	20	19
572.00		6	7	6
756.73		96	8	5
774.92		125	134	135
793.10		144	145	146
811.28		186	155	148
829.46		154		
847.64		146		
865.83		31	29	45
930.19				32
962.86		-	8	10
1187.65			-	5
STA	PHI =	22.5	67.5	112.5
	DEC =	3	3	3
		19	4	18
				3

TWT 77 BLOW 108

CONFIG E40 T16 C2 S3 K 1 B

TUNNEL CONDITIONS

TIME	ALPH	BN	HO	P0	M	Q	TTO	RN	V
DEC 1	2			1	3	1	1	3	1
75	194	714	14060	1932	3467	16256	5353	12125	21311
115	197	833	14007	1925	3467	16195	5312	12225	21230

TWT 77 BLOW 108

CONFIG E40 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA 194 BN 714

STA	PHI =	00	45	90	135	180	225	270	280	290	315
	DEC =	3	3	3	3	3	3	3	3	3	3
371.46		36		36		76		33			
378.55		37		63	92	76		110			
398.00		166		307				442			
425.10		250	403	525	666	709					381
443.82		544	660	756	787						
459.10		362	627	693	764	784					
472.37		72	4	7	13	19	3				
479.28		-	23	-	46	-	49	-	47	-	
500.00								52			
516.37										- 27	
572.00			32	-	41	-	30	-	15	-	
756.73			30	-	25	-	23	-	14	-	
774.92			60	-	23	-	21	-	14	-	7
793.10			109		124		144		155		
811.28			123		136		155		162		
829.46		149	132	141	155	169					
847.64			126								
865.83		117									
930.19		31		23		40		31		37	
962.86			-	33	-	30	-	22	-	17	
1187.65		-	23	-	25	-	17	-	22	-	10
	STA	PHI =	22.5	67.5	112.5	157.5					
		DEC =	3	3	3	3					
	1323.83		- 51	- 27	- 31	- 47					

SID 62 929
APPENDIX A

TWT 77 BLOW 108

SCONEIG E40 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

SID .62 929

TWT 77 BLOW 109

CONFIG E40 T16 C2 S3 K I B

TUNNEL CONDITIONS

TIME	ALPH	BN	HO	PO	M	G	TTO	RN	V
DEC 1	2	1	1	3	1	1	1	3	1
84	403	1032	14079	1935	3467	16279	5324	12246	21254
84	400	1155	14003	1924	3467	16191	5290	12303	21185
125	400								

464

SID 62 929
APPENDIX A

TWT 77 BLOW 109

CONFIG E40 T16 C2 S3 K I B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA 403 BN 1032

STA	PHI =	00	45	90	135	180	225	270	280	290	315
371•46	DEC =	36									
378•55		44									
398•00			57	114	76	39	37				
425•10			122	367	280						
443•82			157	579	691						
459•10				339	721	738					
472•37			189	403	707	757	770				
479•28			48	14	12	22	39	16			
500•00		-	22	-	43	-	44	-	29	-	17
516•37											
572•00		-	25	-	45	-	24	-	12	-	25
756•73		-	32	-	26	-	25	-	6	-	4
774•92			41	-	24	-	24	-	7	-	4
793•10				90	107						
811•28				110	123	150	176				
829•46			99	120	124	153	175				
847•64			84								
865•83			77								
930•19			23	16	31	43	65				
962•86			-	35	-	29	-	5	7		
1187•65		-	12	-	30	-	14	-	19	2	

STA PHI = 22.5 67.5 112.5 157.5

465	DEC =	3	3	3	3	3	3	3	3	3	3
1323.83		-28	-78	-74	-74	-74	-74	-74	-74	-74	-74

APPENDIX A

TWT 77 BLOW 109

CONFIG E40 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA 400 BN 1155

STA	PHI =	00	45	90	135	180	225	270	280	290	315
	DEC =	3	3	3	3	3	3	3	3	3	3
371.46		32									
378.55		40									
398.00			54	113	76						
425.10		120									
443.82		152	252	577	722	744					
459.10			343	697	757	772					
472.37		181	409	706	758	789					
479.28		11	4	30	39	55	39				
500.00		5	-19	-20	-	6	8				
516.37											
572.00		-20	-43	-18	25	31	-				
756.73		-28	-20	-19	-19	-	2	10			
774.92		48	-19	-19	-19	-	2	10			
793.10			93	107	145	163					
811.28			111	122	151	172					
829.46		99	117	122	154	177					
847.64		83									
865.83		78									
930.19		17	17	31	45	63					
962.86		-	31	-	26	-	11				
1187.65		-7	-26	-	10	-	15	7			
	STA	PHI =	22.5	67.5	112.5	157.5					
		DEC =	3	3	3	3					
			-53	-	48	19					
	SID	62	929								
	APPENDIX	A									

466

APPENDIX A

TWT 77 BLOW 110

CONFIG E40 T16 C2 S3 K I B

TUNNEL CONDITIONS

TIME	ALPH	BN	HO	P0	M	Q	TTO	RN	V
DEC 1	2			1	3	1	1	'3	1
82	593	698	14076	1934	3467	16274	5317	12267	21240
122	593	816	14013	1926	3467	16202	5286	12324	21178

TWT 77 BLOW 110

CONFIG E40 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA 593 BN 698

STA	PHI =	00	45	90	135	180	225	270	280	290	295	315
371.46	DEC =	34	38	38	38	38	38	38	38	38	38	75
378.55		48	58	170	93	471	471	471	471	471	471	454
398.00		98	117	206	664	786	786	786	786	786	786	691
425.10		117	272	719	719	760	760	760	760	760	760	206
443.82		122	321	686	686	789	789	789	789	789	789	
459.10		44	-	36	-	1	28	28	28	28	28	
472.37		-	24	-	62	-	54	-	54	-	54	
479.28		-	-	-	-	-	-	-	-	-	-	22
500.00		-	-	-	-	-	-	-	-	-	-	43
516.37		-	25	-	61	-	14	-	14	-	14	50
572.00		-	34	-	35	-	33	-	33	-	33	-
756.73		-	35	-	33	-	32	-	32	-	32	-
774.92		-	-	-	-	-	-	-	-	-	-	22
793.10		-	-	-	-	-	-	-	-	-	-	50
811.28		-	-	-	-	-	-	-	-	-	-	-
829.46		-	-	-	-	-	-	-	-	-	-	-
847.64		-	-	-	-	-	-	-	-	-	-	-
865.83		-	-	-	-	-	-	-	-	-	-	-
930.19		-	-	-	-	-	-	-	-	-	-	-
962.86		-	-	-	-	-	-	-	-	-	-	-
1187.65		-	-	-	-	-	-	-	-	-	-	-
468	STA	PHI =	22.5	67.5	112.5	157.5						
SID 1323.83	STA	PHI =	22.5	67.5	112.5	157.5						

62 929

APPENDIX A

TWT 77 Below 110

ECONOMIC GROWTH AND INEQUALITY 18

ADDRESS IBE COEFFICIENTS (DELTAS) / Q

SID 62 929
APPENDIX

TWT 77 BLOW 11

CONFIG E35 T16 C2 S3 K 1 B

TUNNEL CONDITIONS

TIME	ALPH	BN	HO	PO	M	Q	TTO	RN	V
DEC 1	2			1	3	1	1	3	1
84	601	975	14065	1933	3467	16262	5322	12240	21250
124	600	1094	14010	1925	3467	16199	5292	12302	21189

470

SID 62 929
APPENDIX A

TWT 77 below 111

CONFIG E35 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DETAILED) /0

ALBHA 601 8N 036

36	38	69	24	79	51
198		406		480	720

- 32 - 32 - 32 - 25

	60	87	156	197
	77	101	175	214
147	83	103	175	220
118				

103						
16	4	28	63	86		
-	35	-	32	2	13	
-	43	-	27	-	20	14

STA PHI = 22.05 67.05 112.05 157.5

DEC = $-3^{\circ}36' -69^{\circ}82' 11^{\circ}$

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TWT 77 BLOW 111

CONFIG E35 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA 600 BN 1094

315

310

305

300

295

290

285

280

275

270

265

260

255

250

245

240

235

230

225

220

215

210

205

200

195

190

185

180

175

170

165

160

155

150

145

140

135

130

125

120

115

STA

PHI =

00

45

90

135

3

3

3

3

3

3

3

3

3

3

3

3

3

3

3

3

3

DEC = 37

199 67 409

298 435 552

537 624 764

401 582 644

34 - 1 26 827

- 4 - 40 - 12 72

64 33 101

49 - 49

- 9

- 28

- 19

- 49

- 9

- 28

- 19

- 49

- 9

- 28

- 19

DEC = 37

199 67 409

298 435 552

537 624 764

401 582 644

34 - 1 26 827

- 4 - 40 - 12 72

64 33 101

49 - 49

- 9

- 28

- 19

- 49

- 9

- 28

- 19

- 49

- 9

- 28

- 19

472

STA

PHI =

22.5

67.5

112.5

157.5

DEC =

3

3

3

3

3

DEC =

- 10

- 45

- 61

- 34

- 34

DEC =

1323.83

62

929

A

APPENDIX A

TWT 77 BELOW 112

CONFIG E35 T16 C2 S3 K 1 B

TUNNEL CONDITIONS

TIME	ALPH	BN	HC	P0	M	G	TTO	RN	V
DEC 1	2			1	3	1	1	3	1
83	-	636	14075	1934	3467	16273	5317	12266	21240
122	-	6754	14014	1926	3467	16203	5290	12312	21185

473

SID 62 929
APPENDIX A

TWT 77 BLOW 112

CONFIG E35 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA - 6 BN 636

STA	PHI =	00	45	90	135	180	225	270	280	290	315
371.46	DEC =	3	3	3	3	3	3	3	3	3	3
378.55		22			25						
398.00		19		97	136	96					
425.10		511			518						
443.82		596	567		589	571					
459.10			620		635	621					
472.37		648	647		657	656					
479.28		73	22	9		23	12	16			
500.00		-	30	-	12	-	28	-	16	-	
516.37										35	
572.00		-	19	-	15	-	15	-	15	-	12
756.73		-	17	-	19	-	18	-	19	-	17
774.92			80	-	19	-	17	-	20	-	19
793.10					115	115			121		119
811.28					131	127			133		130
829.46					168	134	128		135		135
847.64					139						
865.83					124						
930.19					36	27	47		32		35
962.86					-	20	-	18	-	17	-
1187.65					-	14	-	18	-	18	-
1323.83	STA	PHI =	22.5	67.5	112.5	157.5					
		DEC =	3	3	3	3					
			- 15	- 18	- 19	- 26					

474

SID, 62 929

APPENDIX A

TWT 77 BELOW 113

CONFIG E35 T16 C2 S3 K-1 B

TUNNEL CONDITIONS

	TIME	ALPH	BN	HO	PO	M	Q	TTO	RN	V
DEC 1	2				1	3	1	1	3	1
87	198	850	14056	1931	3467	16252	5309	12281	21223	
126	197	967	13967	1919	3467	16149	5281	12302	21168	

TWT 77 BLOW 113

CONFIG E35 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

STA	ALPHA	198	BN	850	800	750	700	650	600	550	500	450	400	350	300	250	200	150	100	50	0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
	PHI =	00	45	90	135	180	225	270	315	360	405	450	495	540	585	630	675	720	765	810	855	900	945	990	1035	1080	1125	1170	1215	1260	1305	1350	1395	1440	1485	1530	1575	1620	1665	1710	1755	1800	1845	1890	1935	1980	2025	2070	2115	2160	2205	2250	2295	2340	2385	2430	2475	2520	2565	2610	2655	2700	2745	2790	2835	2880	2925	2970	3015	3060	3105	3150	3195	3240	3285	3330	3375	3420	3465	3510	3555	3600	3645	3690	3735	3780	3825	3870	3915	3960	4005	4050	4095	4140	4185	4230	4275	4320	4365	4410	4455	4500	4545	4590	4635	4680	4725	4770	4815	4860	4905	4950	5000	5045	5090	5135	5180	5225	5270	5315	5360	5405	5450	5495	5540	5585	5630	5675	5720	5765	5810	5855	5900	5945	5990	6035	6080	6125	6170	6215	6260	6305	6350	6395	6440	6485	6530	6575	6620	6665	6710	6755	6800	6845	6890	6935	6980	7025	7070	7115	7160	7205	7250	7295	7340	7385	7430	7475	7520	7565	7610	7655	7700	7745	7790	7835	7880	7925	7970	8015	8060	8105	8150	8195	8240	8285	8330	8375	8420	8465	8510	8555	8600	8645	8690	8735	8780	8825	8870	8915	8960	9005	9050	9095	9140	9185	9230	9275	9320	9365	9410	9455	9500	9545	9590	9635	9680	9725	9770	9815	9860	9905	9950	10000	10045	10090	10135	10180	10225	10270	10315	10360	10405	10450	10495	10540	10585	10630	10675	10720	10765	10810	10855	10900	10945	10990	11035	11080	11125	11170	11215	11260	11305	11350	11395	11440	11485	11530	11575	11620	11665	11710	11755	11800	11845	11890	11935	11980	12025	12070	12115	12160	12205	12250	12295	12340	12385	12430	12475	12520	12565	12610	12655	12700	12745	12790	12835	12880	12925	12970	13015	13060	13105	13150	13195	13240	13285	13330	13375	13420	13465	13510	13555	13600	13645	13690	13735	13780	13825	13870	13915	13960	14005	14050	14095	14140	14185	14230	14275	14320	14365	14410	14455	14500	14545	14590	14635	14680	14725	14770	14815	14860	14905	14950	15000	15045	15090	15135	15180	15225	15270	15315	15360	15405	15450	15495	15540	15585	15630	15675	15720	15765	15810	15855	15900	15945	15990	16035	16080	16125	16170	16215	16260	16305	16350	16395	16440	16485	16530	16575	16620	16665	16710	16755	16800	16845	16890	16935	16980	17025	17070	17115	17160	17205	17250	17295	17340	17385	17430	17475	17520	17565	17610	17655	17700	17745	17790	17835	17880	17925	17970	18015	18060	18105	18150	18195	18240	18285	18330	18375	18420	18465	18510	18555	18600	18645	18690	18735	18780	18825	18870	18915	18960	19005	19050	19095	19140	19185	19230	19275	19320	19365	19410	19455	19500	19545	19590	19635	19680	19725	19770	19815	19860	19905	19950	20000	20045	20090	20135	20180	20225	20270	20315	20360	20405	20450	20495	20540	20585	20630	20675	20720	20765	20810	20855	20900	20945	20990	21035	21080	21125	21170	21215	21260	21305	21350	21395	21440	21485	21530	21575	21620	21665	21710	21755	21800	21845	21890	21935	21980	22025	22070	22115	22160	22205	22250	22295	22340	22385	22430	22475	22520	22565	22610	22655	22700	22745	22790	22835	22880	22925	22970	23015	23060	23105	23150	23195	23240	23285	23330	23375	23420	23465	23510	23555	23600	23645	23690	23735	23780	23825	23870	23915	23960	24005	24050	24095	24140	24185	24230	24275	24320	24365	24410	24455	24500	24545	24590	24635	24680	24725	24770	24815	24860	24905	24950	25000	25045	25090	25135	25180	25225	25270	25315	25360	25405	25450	25495	25540	25585	25630	25675	25720	25765	25810	25855	25900	25945	25990	26035	26080	26125	26170	26215	26260	26305	26350	26395	26440	26485	26530	26575	26620	26665	26710	26755	26800	26845	26890	26935	26980	27025	27070	27115	27160	27205	27250	27295	27340	27385	27430	27475	27520	27565	27610	27655	27700	27745	27790	27835	27880	27925	27970	28015	28060	28105	28150	28195	28240	28285	28330	28375	28420	28465	28510	28555	28600	28645	28690	28735	28780	28825	28870	28915	28960	29005	29050	29095	29140	29185	29230	29275	29320	29365	29410	29455	29500	29545	29590	29635	29680	29725	29770	29815	29860	29905	29950	30000	30045	30090	30135	30180	30225	30270	30315	30360	30405	30450	30495	30540	30585	30630	30675	30720	30765	30810	30855	30900	30945	30990	31035	31080	31125	31170	31215	31260	31305	31350	31395	31440	31485	31530	31575	31620	31665	31710	31755	31800	31845	31890	31935	31980	32025	32070	32115	32160	32205	32250	32295	32340	32385	32430	32475	32520	32565	32610	32655	32700	32745	32790	32835	32880	32925	32970	33015	33060	33105	33150	33195	33240	33285	33330	33375	33420	33465	33510	33555	33600	33645	33690	33735	33780	33825	33870	33915	33960	34005	34050	34095	34140	34185	34230	34275	34320	34365	34410	34455	34500	34545	34590	34635	34680	34725	34770	34815	34860	34905	34950	35000	35045	35090	35135	35180	35225	35270	35315	35360	35405	35450	35495	35540	35585	35630	35675	35720	35765	35810	35855	35900	35945	35990	36035	36080	36125	36170	36215	36260	36305	36350	36395	36440	36485	36530	36575	36620	36665	36710	36755	36800	36845	36890	36935	36980	37025	37070	37115	37160	37205	37250	37295	37340	37385	37430	37475	37520	37565	37610	37655	37700	37745	37790	37835	37880	37925	37970	38015	38060	38105	38150	38195	38240	38285	38330	38375	38420	38465	38510	38555	38600	38645	38690	38735	38780	38825	38870	38915	38960	39005	39050	39095	39140	39185	39230	39275	39320	39365	39410	39455	39500	39545	39590	39635	39680	39725	39770	39815	39860	39905	39950	40000	40045	40090	40135	40180	40225	40270	40315	40360	40405	40450	40495	40540	40585	40630	40675	40720	40765	40810	40855	40900	40945	40990	41035	41080	41125	41170	41215	41260	41305	41350	41395	41440	41485	41530	41575	41620	41665	41710	41755	41800	41845	41890	41935	41980	42025	42070	42115	42160	42205	42250	42295	42340	42385	42430	42475	42520	42565	42610	42655	42700	42745	42790	42835	42880	42925	42970	43015	43060	43105	43150	43195	43240	43285	43330	43375	43420	43465	43510	43555	43600	43645	43690	43735	43780	43825	43870	43915	43960	44005	44050	44095	44140	44185	44230	44275	44320	44365	44410	44455	44500	44545	44590	44635	44680	44725	44770	44815	44860	44905	44950	45000	45045	45090	45135	45180	45225	45270	45315	45360	45405	45450	45495	45540	45585	45630	45675	45720	45765	45810	45855	45900	45945	45990	46035	46080	46125	46170	46215	46260	46305	46350	46395	46440	46485	46530	46575	46620	46665	46710	46755	46800	46845	46890	46935	46980	47025	47070	47115	47160	47205	47250	47295	47340	47385	47430	47475	47520	47565	47610	47655	47700	47745	47790	47835	47880	47925	47970	48015	48060	48105	48150	48195	48240	48285	48330	48375	48420	48465	48510	48555	48600	48645	48690	48735	48780	48825	48870	48915	48960	49005	49050	49095	49140	49185	49230	49275	49320	49365	49410	49455	49500	49545	49590	49635	49680	49725	49770	49815	49860	49905	49950	50000	50045	50090	50135	50180	50225	50270	50315	50360	50405	50450	50495	5054

TWT 77 BLOW 113

CONF10 E3E T1E C2C3 K1 B

BDESSIDI IDE COEFFICIENTS ((DELTAP)) / Q

197	BN	967	900	45	90	135	180	225	270	280	290	315
-----	----	-----	-----	----	----	-----	-----	-----	-----	-----	-----	-----

		20	-	13
-	31	-	19	-
-	14	-	14	-
-	82	-	13	-
		107	111	116
		119	122	134
		125	124	137
		164	125	152

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SID 62 929
APPENDIX

APPENDIX A

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TWT 77 BLOW 114

CONFIG E35 T16 C2 S3 K 1 B

TUNNEL CONDITIONS

TIME	ALPH	BN	HO	PO	M	Q	TTO	RN	V
DEC 1	2			1	3	1	1	3	1
85	419	680	13917	1912	3467	16091	5314	12141	21233
124	414	795	13878	1907	3467	16046	5290	12193	21185

~~CONFIDENTIAL~~

TWT 77 BLOW 115

CONFIG E35 T16 C2 S3 K I B

TUNNEL CONDITIONS

	TIME	ALPH	BN	HO	P0	M	Q	TTO	RN	V
DEC 1	2				1	3	1	1	3	1
88	-	421	1278	13938	1915	3467	16116	5305	12190	21216
129	-	233	1400	13887	1908	3467	16056	5281	12231	21168

TWT 77 BLOW 115

CONFIG E35 T16 C2 S3 K I B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA - 421 BN 1278

STA PHI = 00 45 90 135 180 225 , 270 280 290 315

DEC = 3 3 3 3 3 3 3 3 3 3

371.46 28 41 28

378.55 29 64 107 76 93

398.00 639 725 565 514 381 257

425.10 713 760 629 604 475

443.82 472.37 794 777 642 628 526

459.10 479.28 97 38 18 - 3 16 - 10

500.00 15 - 3 - 20 - 50 - 28 - 16

516.37 516.37 7 6 - 13 - 33 - 44

572.00 756.73 1 - 12 - 28 - 29 - 25

774.92 98 - 10 - 25 - 26 - 21

793.10 129 100 103 112

811.28 157 113 103 121

829.46 227 163 119 102 125

847.64 194 177 177 177

865.83 930.19 70 51 43 19 20

962.86 962.86 - 3 - 2 - 30 - 7 - 25

1187.65 1187.65 483

STA PHI = 22.5 67.5 112.5 157.5

DEC = 3 3 3 3 3

1323.83 - 18 - 61 - 91 - 55

SID 62 929

APPENDIX A

TWT 77 BLOW 115

CONFIG E35 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P/Q)

ALPHA - 233 BN 1400

STA	PHI =	00	45	90	135	180	225	270	280	290	315
DEC =		3	3	3	3	3	3	3	3	3	3
371•46		26									
378•55		23									
398•00			73		110	81	139				
425•10		588			482						
443•82		639	632	578	533	546					
459•10		692	634	617	620						
472•37		717	721	650	636	650					
479•28		71	37	28	21	28	21				
500•00		18	8	-4	-15	-23					
516•37							54				
572•00		-	1	-9	-20	-30					
756•73		-	5	-12	-13	-16	-15				
774•92		87	-	9	-16	-15	-13				
793•10			114	111	120	116					
811•28			133	124	117	124					
829•46		195	147	122	121	130					
847•64		165									
865•83		150									
930•19		56	46	52	25	25					
962•86		-	5	-11	-17	-20					
1187•65		-	6	-9	7	-15	-16				
	STA	PHI =	22•5	67•5	112•5	157•5					
	DEC =	3	3	3	3	3					
1323•83		4	-29	-8	-8	-19					

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TWT 77 BLOW 116

CONFIG E35 T16 C2 S3 K I B

TUNNEL CONDITIONS

TIME	ALPH	BN	HO	PO	M	Q	TTO	RN	V
DEC 1	2			1	3	1	1	3	1
88	894	1369	13921	1913	3467	16095	5310	12156	21226
127	1264	1487	13859	1904	3467	16024	5283	12200	21172

TWT 77 BLOW 116

CONFIG E35 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA 894 BN 1369

STA	PHI =	00	45	90	135	180	225	270	280	290	315
371•46	DEC =	24		48							
378•55		54		88	288	102		121			
398•00			132		424			665			
425•10			214	292	501	863	913				
443•82				367	558	898	990				
459•10											
472•37		363	404	598	929	1047					
479•28		53	-	26	15	94	145	97			
500•00		-	46	-	42	-	31	21	64		
516•37										-	71
572•00		-	40	-	47	-	24			-	50
756•73		-	34	-	53	-	44			-	25
774•92			44	-	48	-	41	11			40
793•10				30		63	196				
811•28				43		85	201	269			
829•46				112	52	74	206	280			
847•64					85						
865•83					72						
930•19		-	7	-	15		20	63	105		
962•86		-		-	54	-	42	3	36		
1187•65		-	19	-	11	-	5	-	8	50	
1323•83	STA	PHI =	22.5	67.5	112.5	157.5					
	DEC =	-	3		3		3		3		
		-	45	-	29	-	62	18			

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APPENDIX A

TWT 77 BLOW 116

CONF16 E35 T16 C2 S3 K I B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA 1264 BN 1487

STA	PHI =	00	45	90	135	180	225	270	280	290	315
371•46	DEC =	15	3	3	3	3	3	3	3	3	3
378•55		27			37						
398•00			138	180	254	190					
425•10			104		313						
443•82		279	131	513	1034	1105	1042				128
459•10			190	583	1040	1163					
472•37		432	230	629	1054	1243					
479•28		6	—	49	20	135	205	144			
500•00		—	80	—	66	—	29	64	137	—	74
516•37										—	39
572•00		—	29	—	52	—	26	43	85	—	34
756•73			36	—	58	—	46	39	87		
774•92			46	—	40	—	46	36	86		
793•10			—	14	50	231	326				
811•28			7	58	240	339					
829•46		90	18	58	246	359					
847•64		69									
865•83		58									
930•19		—	22	—	38	4	91	165			
962•86			—	60	—	51	30	93			
1187•65		—	33	—	32	—	53	26	98		
STA	PHI =	22.5	67.5	112.5	157.5						
1323•83	DEC =	3	3	3	3	3	3	3	3	3	3
		66	—	64	—	18	88				

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APPENDIX A

TWT 77 BLOW 117

CONFIG E40 T16 C2 S3 K 1 B

TUNNEL CONDITIONS

TIME	ALPH	BN	HO	PO	M	G	TTO	RN	V	1	3
DEC 1	2			1	3	1	1	5310	12174	21226	
86	889	914	13940	1916	3467	16118					
125	1261	1032	13860	1905	3467	16025	5283	12201	21172		

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APPENDIX A

TWT 77 BLOW 117

CONFIG E40 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA	STA	PHI =	00	45	90	135	180	225	270	280	290	315
371.46		ULC =	3	3	3	3	3	3	3	3	3	3
378.55		28										
398.00		44										
425.10		83										
443.82		105										
459.10		259										
472.37		116										
479.28		38	-	48	-	1	68	105	60			
500.00		51	-	74	-	45	20	55				
516.37												
572.00		-	27	-	70	-	14	32	63			
756.73		-	34	-	48	-	42	8	38			
774.92		-	40	-	46	-	42	7	41			
793.10		39										
811.28		57										
829.46		97										
847.64		79										
865.83		69										
930.19		-	8	-	16	-	20	82	120			
962.86		-	20	-	15	-	10	-	8	40		
1187.65												
1323.83	STA	PHI =	22.5	67.5	112.5	157.5						
		DEC =	3	3	3	3						
			- 47	- 37	- 36	- 14						

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APPENDIX A

TWT 77 BELOW 117

CONIC E10 T16 C2 S3 K 1 B

PROGRESSIVE COEFFICIENTS (DELTA P)/Q

COMMUNICATOR

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APPENDIX A

TWT 77 BLOW 118.2

CONFIG E40 T16 C2 S3 K 1 B

TUNNEL CONDITIONS

TIME	ALPH	BN	HO	PO	M	Q	TTO	RN	V
DEC 1	2			1	3	1	1	3	1
89 -	405	759	13910	1911	3467	16083	5298	12190	21202
129 -	215	879	13825	1900	3467	15985	5276	12195	21158

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~~CONFIDENTIAL~~

TWT 77 BLOW 118

CONFIG E40 T16 C2 S3 K 1 B

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA - 405 BN 759

STA	PHI =	00	45	90	135	180	225	270	280	290	315
DEC =		35	35	35	3	3	3	3	3	3	3
371•46											
378•55											
398•00											
425•10											
443•82											
459•10											
472•37											
479•28											
500•00											
516•37											
572•00											
756•73											
774•92											
793•10											
811•28											
829•46											
847•64											
865•83											
930•19											
962•86											
1187•65											
STA	PHI =	22•5	67•5	112•5	157•5						
1323•83	DEC =	- 15	- 52	- 51	- 34						

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TWT 77 November 1998

CONCLUDING REMARKS

PRESSURE COEFFICIENTS (DELTA P)/Q

ALPHA

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109	-	7	-	10	-	14	-	15
	134		128		116		97	
156		142		127		105		
199		161		145		132		113
167								
151								
41		32		41		30		37
	-	13	-	21	-	19	-	2
5	-	8	-	12	-	10	-	18

17 - 29
3
= 22.05
67.05 112.05 157.5
3
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